SONY®

SERVICE MANUAL

KP-5000/7200

RM-601W

US and Canadian Model

COLOR VIDEO
PROJECTION SYSTEM

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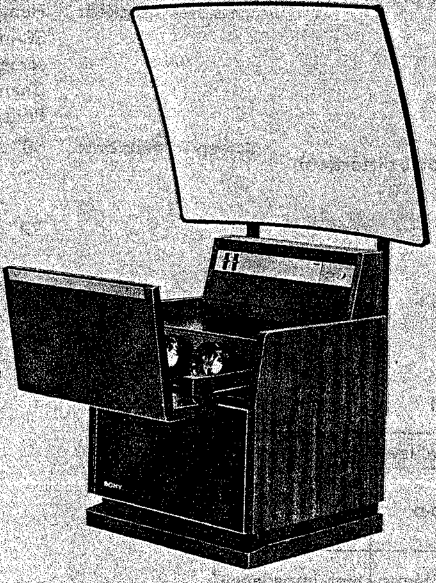
RM-601W 125

KP-5000/7200

RM-601W

US and Canadian Model

Chassis No.
KP-5000 : SCC-194A-A
KP-7200 : SCC-195A-A



Note: This picture shows the Model KP-5000.

COLOR VIDEO PROJECTION SYSTEM

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SPECIFICATIONS

Projected Picture Size:	50 inches diagonally (KP-5000) 72 inches diagonally (KP-7200)
Audience Area:	Viewing distance: 3.6 m (12 ft) minimum to 18.3 m (60 ft) maximum for KP-5000 4.9 m (16 ft) minimum to 24.4 m (80 ft) maximum for KP-7200 Optimum seating arrangement: approx. 35° from center
Projected Picture Brightness:	More than 60 fL (white peak) (KP-5000) More than 30 fL (white peak) (KP-7200)
Projected Contrast Ratio:	More than 30 : 1 (in darkened room)
Screen:	Aluminum foil screen
Television System:	American and Canadian TV standards
Color System:	NTSC
Picture Tube:	20.3 cm, 8″ high bright monochrome tube
Semiconductors:	220 transistors, 2 FETs, 13 ICs, 159 diodes and 1 thyristor
Anode Voltage:	27 kV at zero beam current

— Continued on next page —

SONY®

SERVICE MANUAL

KP-5000/7200

SCC-194A-A/SCC-195A-A

Antennas: VHF: 300 Ω balanced, 75 Ω unbalanced; UHF: 300 Ω balanced } external antenna terminals

Channel Coverage: VHF channels: 2 – 13
UHF channels: 14 – 83
(a total of up to 12 channels may be preselected)

Intermediate Frequencies: Picture i-f carrier: 45.75 MHz
Color subcarrier: 42.17 MHz
Sound i-f carrier: 41.25 MHz

Sound System: 4.5 MHz intercarrier
Output power: 5 W (at 10 % harmonic distortion)
Speaker: 20.3 cm (8 inches), 8 Ω

Automatic Controls:

- ABL (automatic brightness limiter)
- ACC (automatic color control)
- ACK (automatic color killer)
- AFC (automatic frequency control)
- AFT (automatic fine tuning)
- AGC (automatic gain control)
- ANC (automatic noise canceller)
- AVR (automatic voltage regulator)

Input:

Signal	Connector	Signal level	Remarks
VIDEO IN	LINE BNC coaxial connector	1.0Vp-p	NTSC 75Ω, sync negative
AUDIO IN	LINE Minijack	0.775Vrms	high impedance

Power Requirements: 120 V ac, 60 Hz

Power Consumption: 258 W (max.), 213 W (average)

Dimensions: See the diagrams as shown below.

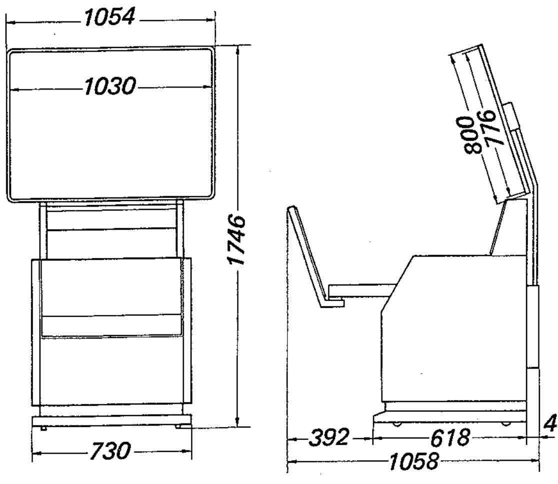
Weight: Approx. 99.5 kg, 220 lbs (KP-5000)
Approx. 110 kg, 243 lbs (KP-7200)

Accessories Supplied: Remote commander RM-601W
50-inch (KP-5000) or 72-inch (KP-7200) screen (diagonal measurement)
Channel number segments
Polishing cloth

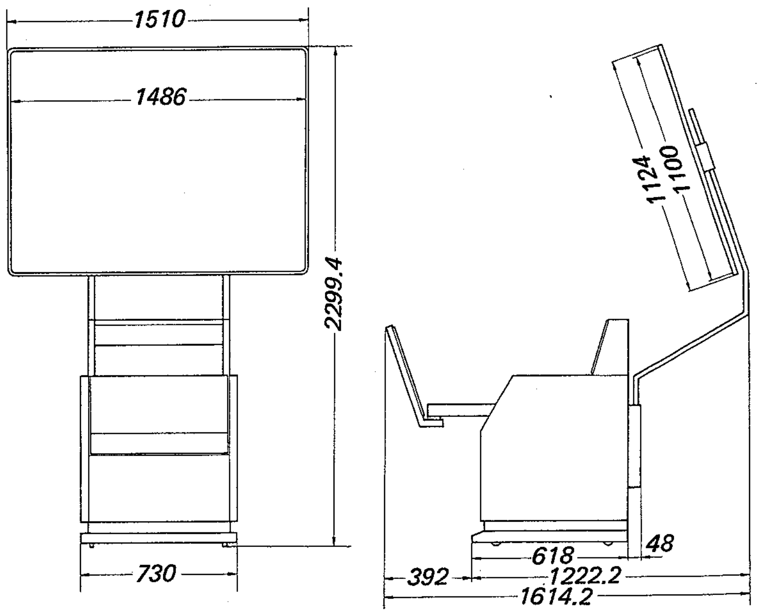
Screen Dimensions: 50" screen: approx.
1054 (w) x 1746 (h) x 730 (d) mm
41 ½ (w) x 68 ¾ (h) x 28 ¼ (d) inches
72" screen: approx.
1510 (w) x 2299.4 (h) x 1614.2 (d) mm
59 ½ (w) x 90 ½ (h) x 63 ½ (d) inches

Weight: 50" screen: approx.
6 kg, 13.2 lbs screen only
72" screen: approx.
13 kg, 28.6 lbs screen only

KP-5000



KP-7200



Unit: mm

SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

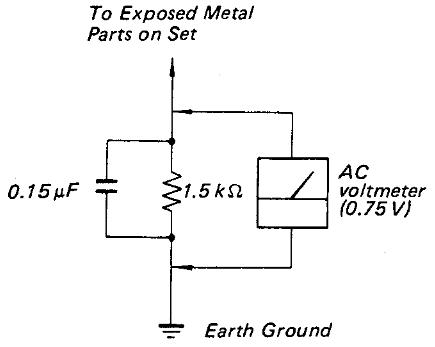


Fig. A. Using an AC voltmeter to check AC leakage.

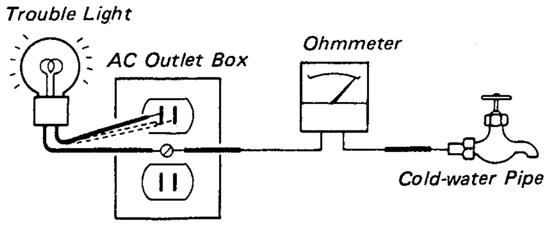
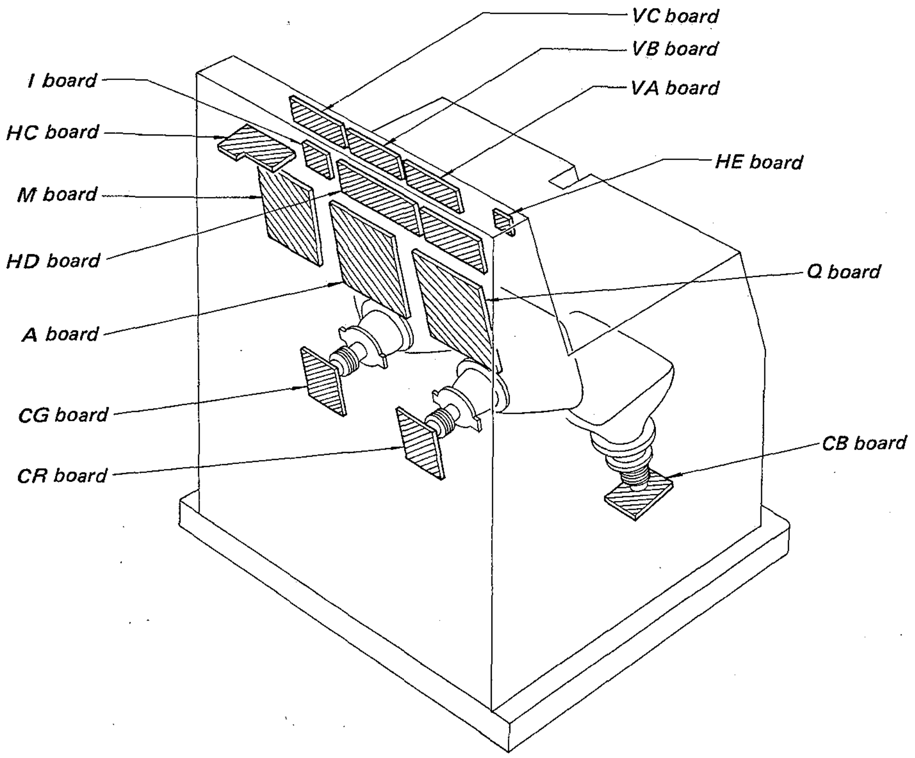
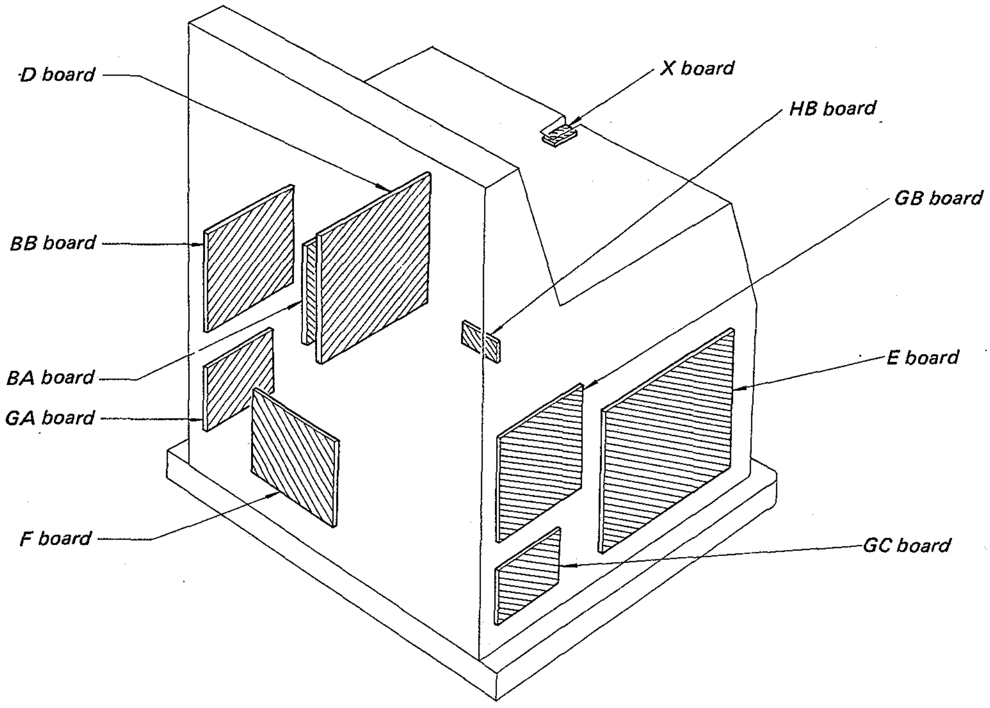


Fig. B. Checking for earth ground.

CIRCUIT BOARDS LOCATION (1)

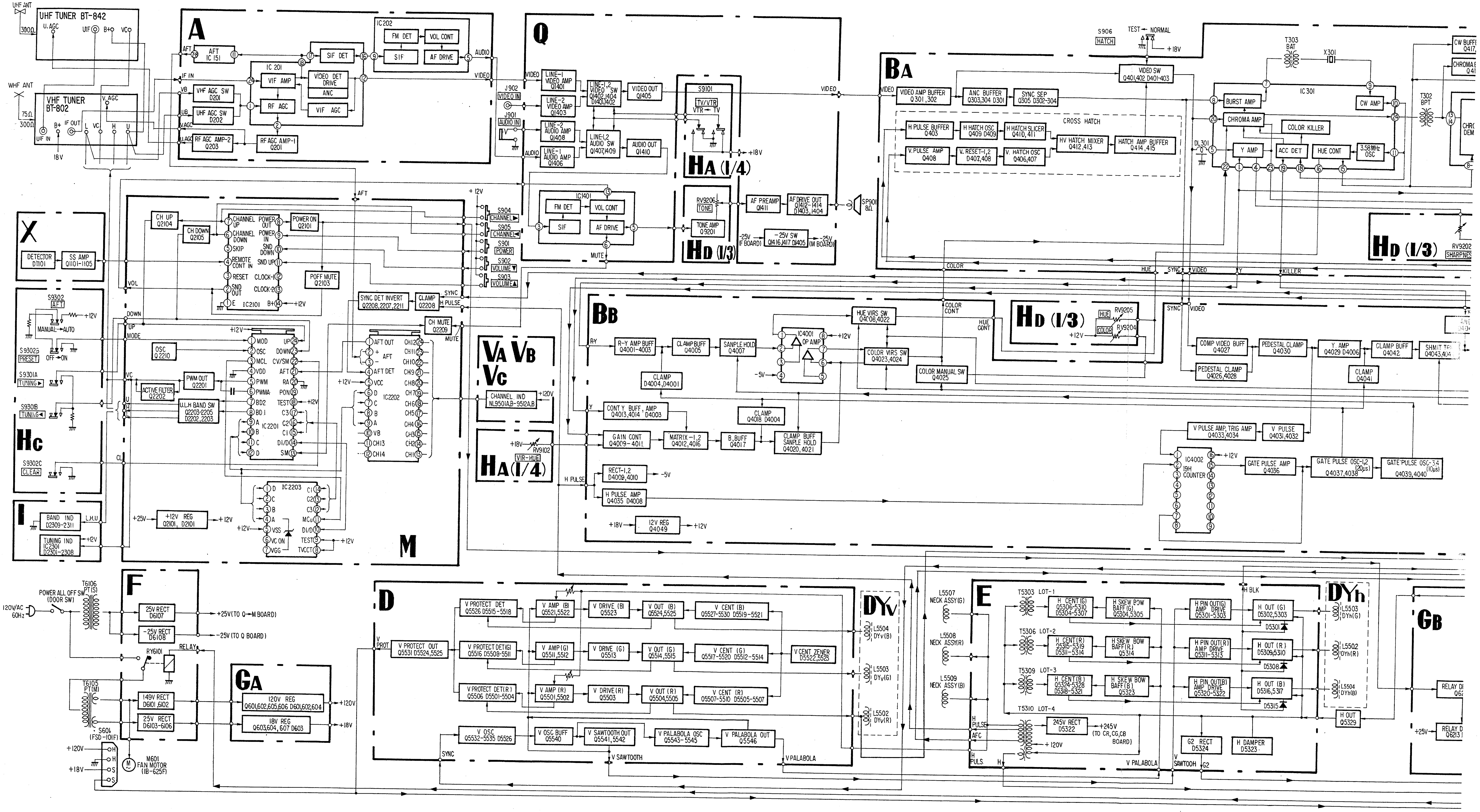

VC board
VB board
I board
VA board
HC board
HE board
M board
HD board
Q board
A board
CG board
CB board
CR board

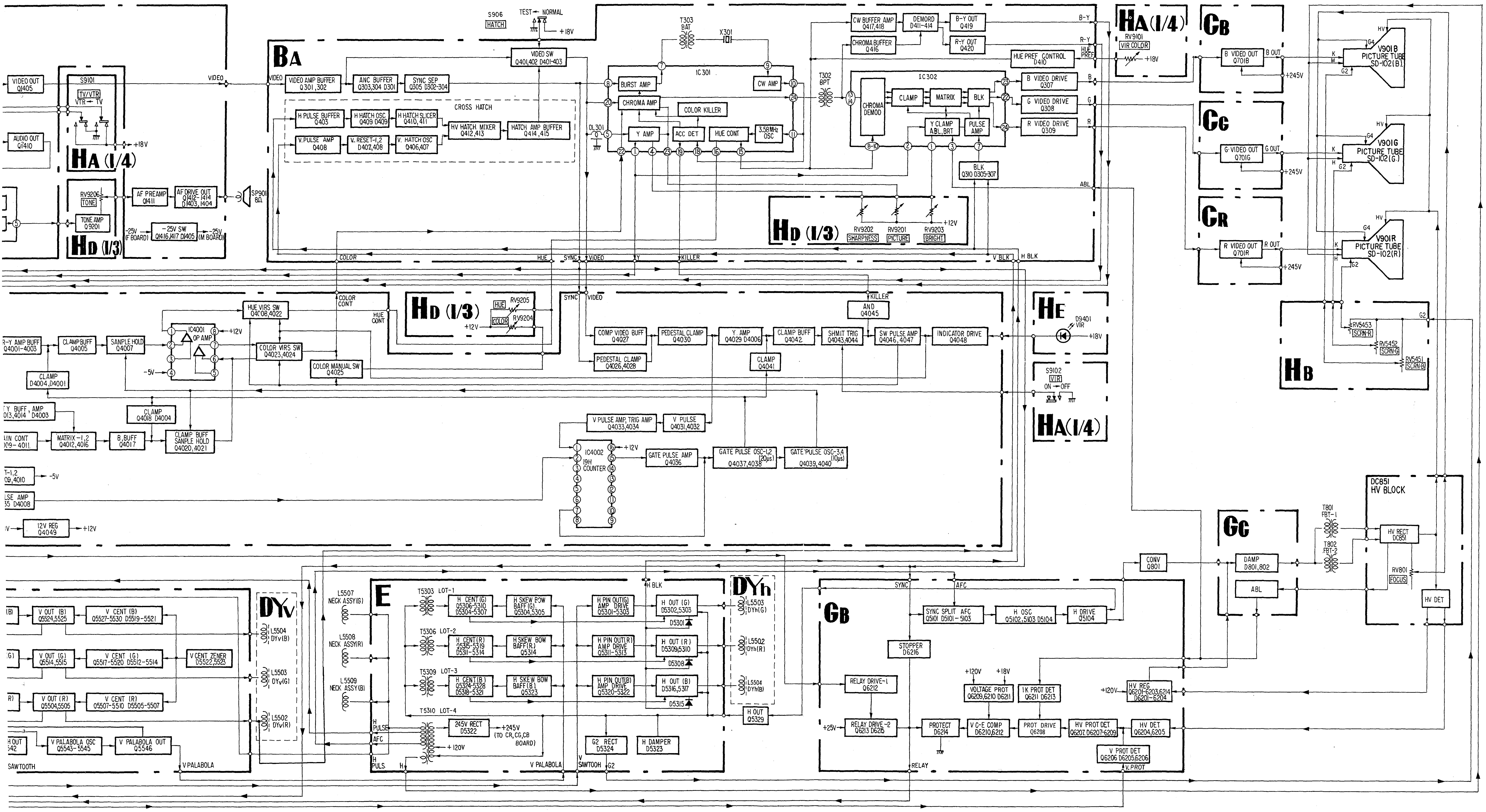
CIRCUIT BOARDS LOCATION (2)


D board
X board
HB board
GB board
BB board
E board
BA board
GA board
F board
GC board

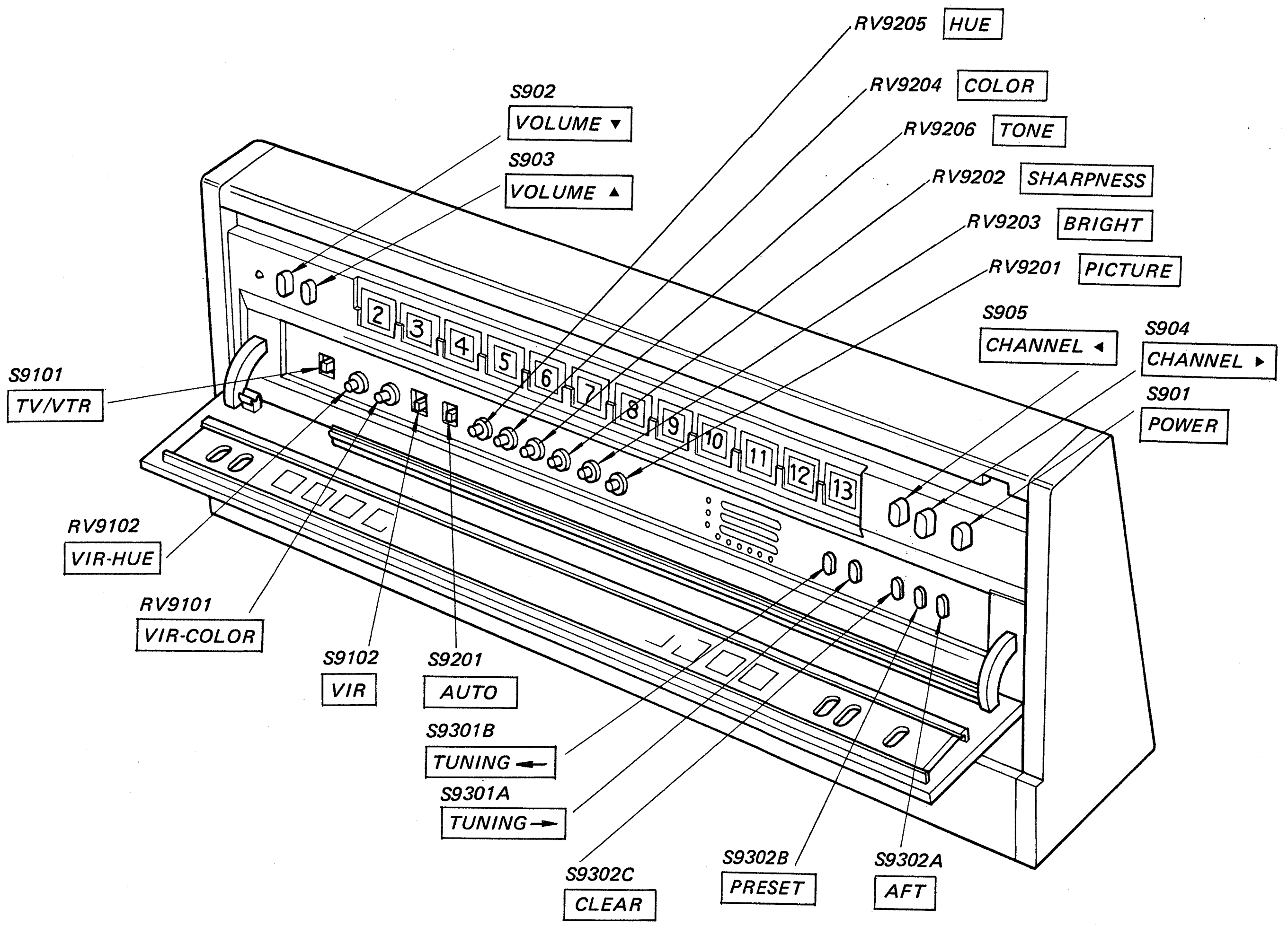
SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM


UHF ANT
UHF TUNER BT-842
VHF ANT
VHF TUNER BT-802
A
AFT IC151
IC 201
VIF AMP
RF AGC
VIDEO DET DRIVE
ANC
VIF AGC
SIF DET
IC202
FM DET
VOL CONT
SIF
AF DRIVE
VHF AGC SW D201
UHF AGC SW D202
RF AGC AMP-2 Q203
RF AGC AMP-1 Q201
Q
LINE-1 VIDEO AMP Q1401
LINE-2 VIDEO AMP Q1403
LINE-2 AUDIO AMP Q1408
LINE-1 AUDIO AMP Q1406
LINE-1,2 VIDEO SW Q1402,1404 D1401,1402
LINE-1,2 AUDIO SW Q1407,1409
VIDEO OUT Q1405
AUDIO OUT Q1410
J902 VIDEO IN
J901 AUDIO IN
IC1401
FM DET
VOL CONT
SIF
AF DRIVE
S9101 TV/VTR
HA (1/4)
RV9206 TONE
TONE AMP Q9201
HD (1/3)
AF PREAMP Q1411
AF DRIVE OUT Q1412-1414 D1403,1404
-25V SW Q1416,1417 D1405
SP901 8Ω
BA
VIDEO AMP BUFFER Q301,302
ANC BUFFER Q303,304 D301
SYNC SEP Q305 D302-304
VIDEO SW Q401,402 D401-403
S906 HATCH
TEST NORMAL
CROSS HATCH
H PULSE BUFFER Q403
H HATCH OSC Q409 D409
H HATCH SLICER Q410,411
HV HATCH MIXER Q412,413
HATCH AMP BUFFER Q414,415
V.PULSE AMP Q408
V. RESET-1,2 D407,408
V. HATCH OSC Q406,407
T303 BAT
X301
IC301
BURST AMP
CHROMA AMP
COLOR KILLER
CW AMP
Y AMP
ACC DET
HUE CONT
3.58MHz OSC
DL301
T302 BPT
CW BUFF Q417
CHROMA
HD (1/3)
RV9202 SHARPNESS
X
DETECTOR D1101
SS AMP Q1101-1105
M
CH UP Q2104
CH DOWN Q2105
POWER ON Q2101
POFF MUTE Q2103
IC2101
SYNC DET INVERT Q2208,2207,2211
CLAMP Q2208
CH MUTE Q2209
S904 CHANNEL▶
S905 CHANNEL◀
S901 POWER
S902 VOLUME▼
S903 VOLUME▲
S9302 AFT
MANUAL AUTO
S9302B PRESET
S9301A TUNING
S9301B TUNING
Hc
S9302C CLEAR
OSC Q2210
PWM OUT Q2201
ACTIVE FILTER Q2202
U.L.H BAND SW Q2203-2205 D2202,2203
IC2201
IC2202
IC2203
+12V REG Q2101, D2101
I
BAND IND D2309-2311
TUNING IND IC2301 D2301-2308
VA VB VC
CHANNEL IND NL9501A,B-9512A,B
HA (1/4)
RV9102 VIR-HUE
BB
R-Y AMP BUFF Q4001-4003
CLAMP BUFF Q4005
SAMPLE HOLD Q4007
IC4001 OP AMP
HUE VIRS SW Q4008,4022
COLOR VIRS SW Q4023,4024
COLOR MANUAL SW Q4025
CLAMP D4004,D4001
CONT Y BUFF, AMP Q4013,4014 D4003
CLAMP Q4018 D4004
GAIN CONT Q4009-4011
MATRIX-1,2 Q4012,4016
B.BUFF Q4017
CLAMP BUFF SANPLE HOLD Q4020,4021
RECT-1,2 D4009,4010
H PULSE AMP Q4035 D4008
12V REG Q4049
HD (1/3)
RV9205 HUE
RV9204 COLOR
COMP VIDEO BUFF Q4027
PEDESTAL CLAMP Q4026,4028
PEDESTAL CLAMP Q4030
Y AMP Q4029 D4006
CLAMP BUFF Q4042
SHMIT TR Q4043,4044
CLAMP Q4041
V PULSE AMP, TRIG AMP Q4033,4034
V PULSE Q4031,4032
IC4002 19H COUNTER
GATE PULSE AMP Q4036
GATE PULSE OSC-1,2 (20μs) Q4037,4038
GATE PULSE OSC-3,4 (10μs) Q4039,4040
F
T6106 PT(S)
POWER ALL OFF SW (DOOR SW)
120VAC 60Hz
25V RECT D6107
-25V RECT D6108
+25V (TO Q→M BOARD)
-25V (TO Q BOARD)
RY6101 RELAY
T6105 PT(M)
149V RECT D6101,6102
25V RECT D6103-6106
GA
120V REG Q601,602,605,606 D601,602,604
18V REG Q603,604,607 D603
S601 (FSD-101F)
M601 FAN MOTOR (1B-625F)
D
V PROTECT OUT Q5531 D5524,5525
V PROTECT DET Q5526 D5515-5518
V PROTECT DET(G) Q5516 D5508-5511
V PROTECT DET(R) Q5506 D5501-5504
V AMP (B) Q5521,5522
V AMP (G) Q5511,5512
V AMP (R) Q5501,5502
V DRIVE (B) Q5523
V DRIVE (G) Q5513
V DRIVE (R) Q5503
V OUT (B) Q5524,5525
V OUT (G) Q5514,5515
V OUT (R) Q5504,5505
V CENT (B) Q5527-5530 D5519-5521
V CENT (G) Q5517-5520 D5512-5514
V CENT (R) Q5507-5510 D5505-5507
V CENT ZENER D5522,5523
V OSC Q5532-5535 D5526
V OSC BUFF Q5540
V SAWTOOTH OUT Q5541,5542
V PALABOLA OSC Q5543-5545
V PALABOLA OUT Q5546
DYv
L5504 DYv(B)
L5503 DYv(G)
L5502 DYv(R)
L5507 NECK ASSY(G)
L5508 NECK ASSY(R)
L5509 NECK ASSY(B)
E
T5303 LOT-1
T5306 LOT-2
T5309 LOT-3
T5310 LOT-4
H CENT(G) Q5306-5310 D5304-5307
H CENT(R) Q5315-5319 D5311-5314
H CENT(B) Q5324-5328 D5318-5321
H SKEW BOW BAFF(G) Q5304,5305
H SKEW BOW BAFF(R) Q5314
H SKEW BOW BAFF(B) Q5323
H PIN OUT(G) AMP DRIVE Q5301-5303
H PIN OUT(R) AMP DRIVE Q5311-5313
H PIN OUT(B) AMP DRIVE Q5320-5322
H OUT (G) Q5302,5303
H OUT (R) Q5309,5310
H OUT (B) Q5316,5317
D5301 D5308 D5315
H OUT Q5329
245V RECT D5322
+245V (TO CR,CG,CB BOARD)
G2 RECT D5324
H DAMPER D5323
DYh
L5503 DYh(G)
L5502 DYh(R)
L5504 DYh(B)
GB
RELAY


VIDEO OUT Q1405
AUDIO OUT Q1410
S9101
TV/VTR
VTR ← TV
+18V
HA (1/4)
RV9206
TONE
TONE AMP Q9201
HD (1/3)
AF PREAMP Q1411
AF DRIVE OUT Q1412-1414 D1403,1404
-25V (F BOARD)
-25V SW Q1416,1417 D1405
-25V (M BOARD)
SP901 8Ω
VIDEO
BA
S906
HATCH
TEST ← NORMAL
+18V
VIDEO SW Q401,402 D401-403
VIDEO AMP BUFFER Q301,302
ANC BUFFER Q303,304 D301
SYNC SEP Q305 D302-304
CROSS HATCH
H PULSE BUFFER Q403
H HATCH OSC Q409 D409
H HATCH SLICER Q410,411
HV HATCH MIXER Q412,413
HATCH AMP BUFFER Q414,415
V.PULSE AMP Q408
V. RESET-1,2 D407,408
V. HATCH OSC Q406,407
DL301
T303 BAT
X301
IC301
BURST AMP
CHROMA AMP
COLOR KILLER
CW AMP
Y AMP
ACC DET
HUE CONT
3.58MHz OSC
T302 BPT
CW BUFFER AMP Q417,418
DEMORD D411-414
B-Y OUT Q419
CHROMA BUFFER Q416
R-Y OUT Q420
HUE PREF CONTROL D410
IC302
CHROMA DEMOD
CLAMP
MATRIX
BLK
Y CLAMP ABL,BRT
PULSE AMP
B VIDEO DRIVE Q307
G VIDEO DRIVE Q308
R VIDEO DRIVE Q309
BLK Q310 D305-307
B-Y
R-Y
HUE PREF
B
G
R
ABL
HD (1/3)
RV9202
SHARPNESS
RV9201
PICTURE
RV9203
BRIGHT
+12V
COLOR
HUE
SYNC
VIDEO
Y
KILLER
V BLK
H BLK
HA(1/4)
RV9101
VIR COLOR
+18V
CB
B VIDEO OUT Q701B
B OUT
+245V
CG
G VIDEO OUT Q701G
G OUT
+245V
CR
R VIDEO OUT Q701R
R OUT
+245V
HV
G4
K
M
H
G2
V901B PICTURE TUBE SD-102(B)
V901G PICTURE TUBE SD-102(G)
V901R PICTURE TUBE SD-102(R)
HB
RV5453
SCRN-R
RV5452
SCRN-G
RV5451
SCRN-B
G2
R-Y AMP BUFF Q4001-4003
CLAMP BUFF Q4005
SANPLE HOLD Q4007
IC4001 OP AMP
+12V
-5V
HUE VIRS SW Q4008,4022
COLOR VIRS SW Q4023,4024
COLOR MANUAL SW Q4025
COLOR CONT
HUE CONT
CLAMP D4004,D4001
Y BUFF, AMP 013,4014 D4003
CLAMP Q4018 D4004
IN CONT 009-4011
MATRIX-1,2 Q4012,4016
B.BUFF Q4017
CLAMP BUFF SANPLE HOLD Q4020,4021
T-1,2 09,4010
-5V
LSE AMP 35 D4008
12V REG Q4049
+12V
HD (1/3)
HUE
RV9205
COLOR
RV9204
+12V
SYNC
VIDEO
COMP VIDEO BUFF Q4027
PEDESTAL CLAMP Q4030
PEDESTAL CLAMP Q4026,4028
Y. AMP Q4029 D4006
CLAMP BUFF Q4042
CLAMP Q4041
KILLER
AND Q4045
SHMIT TRIG Q4043,4044
SW PULSE AMP Q4046,4047
INDICATOR DRIVE Q4048
V PULSE AMP, TRIG AMP Q4033,4034
V PULSE Q4031,4032
IC4002 19H COUNTER
+12V
GATE PULSE AMP Q4036
GATE PULSE OSC-1,2 (20μs) Q4037,4038
GATE PULSE OSC-3,4 (10μs) Q4039,4040
HE
D9401 VIR
+18V
S9102
VIR
ON → OFF
HA(1/4)
V OUT (B) Q5524,5525
V CENT (B) Q5527-5530 D5519-5521
V OUT (G) Q5514,5515
V CENT (G) Q5517-5520 D5512-5514
V CENT ZENER D5522,5523
V OUT (R) Q5504,5505
V CENT (R) Q5507-5510 D5505-5507
H OUT 542
V PALABOLA OSC Q5543-5545
V PALABOLA OUT Q5546
SAWTOOTH
V PALABOLA
DYV
L5504 DYv(B)
L5503 DYv(G)
L5502 DYv(R)
L5507 NECK ASSY(G)
L5508 NECK ASSY(R)
L5509 NECK ASSY(B)
E
H PULSE
AFC
H PULS.
H
T5303 LOT-1
H CENT(G) Q5306-5310 D5304-5307
H SKEW BOW BAFF(G) Q5304,5305
T5306 LOT-2
H CENT(R) Q5315-5319 D5311-5314
H SKEW BOW BAFF(R) Q5314
T5309 LOT-3
H CENT(B) Q5324-5328 D5318-5321
H SKEW BOW BAFF(B) Q5323
T5310 LOT-4
245V RECT D5322
+245V (TO CR,CG,CB BOARD)
+120V
H PIN OUT(G) AMP DRIVE Q5301-5303
H PIN OUT(R) AMP DRIVE Q5311-5313
H PIN OUT(B) AMP DRIVE Q5320-5322
H OUT (G) D5302,5303
D5301
H OUT (R) D5309,5310
D5308
H OUT (B) D5316,5317
D5315
H BLK
G2 RECT D5324
H DAMPER D5323
V PALABOLA
V SAWTOOH
G2
DYh
L5503 DYh(G)
L5502 DYh(R)
L5504 DYh(B)
H OUT Q5329
GB
SYNC
AFC
SYNC SPLIT AFC Q5101 D5101-5103
H OSC Q5102,5103 D5104
H DRIVE Q5104
STOPPER D6216
RELAY DRIVE-1 Q6212
+25V
RELAY DRIVE-2 Q6213 D6215
PROTECT D6214
+120V
+18V
VOLTAGE PROT Q6209,6210 D6211
V C-E COMP D6210,6212
1K PROT DET Q6211 D6213
PROT DRIVE Q6208
HV PROT DET Q6207 D6207-6209
HV DET Q6204,6205
+120V
HV REG Q6201-6203,6214 D6201-6204
V PROT DET Q6206 D6205,6206
RELAY
V.PROT
CONV Q801
GC
DAMP D801,802
ABL
T801 FBT-1
T802 FBT-2
DC851 HV BLOCK
HV RECT DC851
RV801
FOCUS
HV DET

1-2. CONTROL PANEL VIEW


RV9205 HUE
RV9204 COLOR
RV9206 TONE
RV9202 SHARPNESS
RV9203 BRIGHT
RV9201 PICTURE
S902 VOLUME ▼
S903 VOLUME ▲
S905 CHANNEL ◂
S904 CHANNEL ▸
S901 POWER
S9101 TV/VTR
RV9102 VIR-HUE
RV9101 VIR-COLOR
S9102 VIR
S9201 AUTO
S9301B TUNING ◂—
S9301A TUNING —▸
S9302C CLEAR
S9302B PRESET
S9302A AFT
2
3
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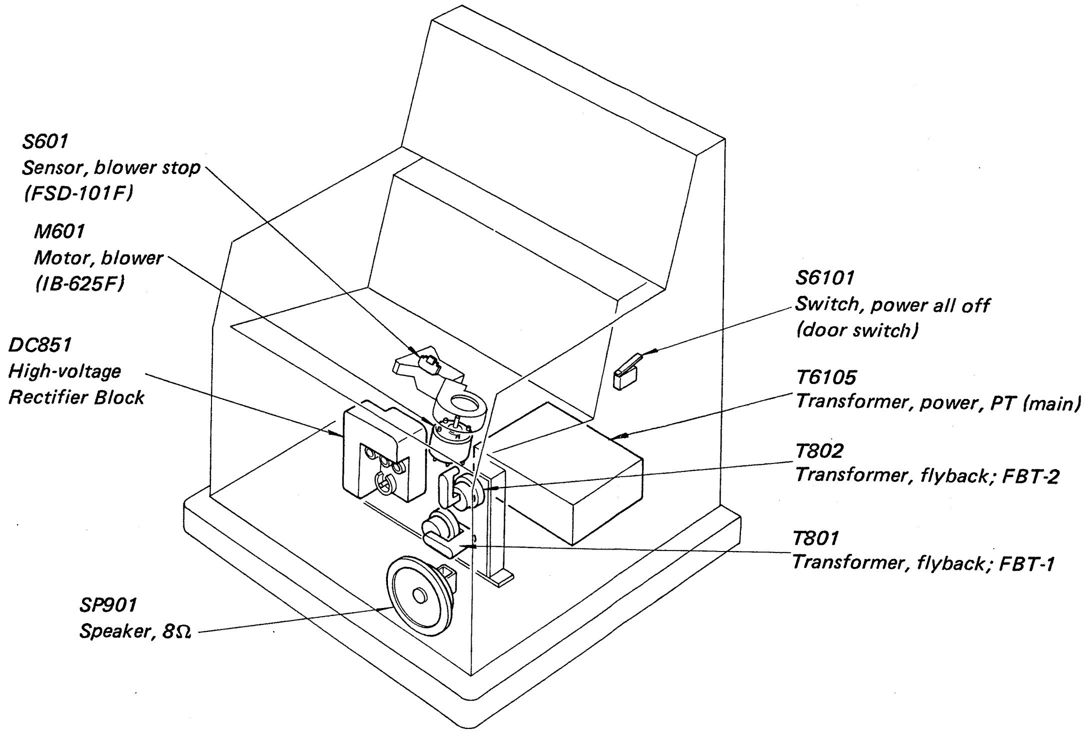
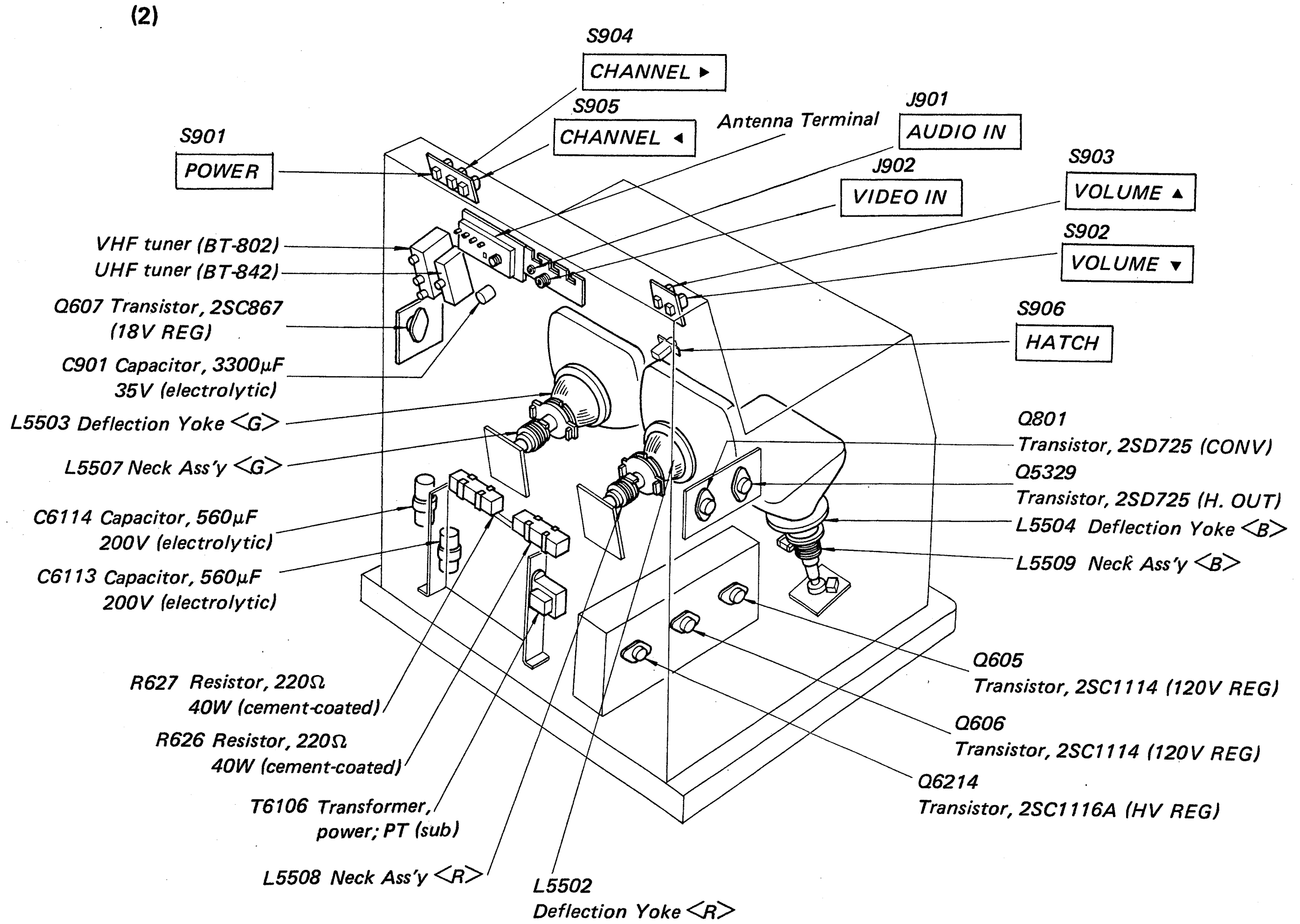
6
7
8
9
10
11
12
13

1-3. INTERNAL VIEWS

(1)


S601
Sensor, blower stop
(FSD-101F)
M601
Motor, blower
(IB-625F)
DC851
High-voltage
Rectifier Block
SP901
Speaker, 8Ω
S6101
Switch, power all off
(door switch)
T6105
Transformer, power, PT (main)
T802
Transformer, flyback; FBT-2
T801
Transformer, flyback; FBT-1

(2)


S904
CHANNEL ▸
S905
CHANNEL ◂
Antenna Terminal
J901
AUDIO IN
J902
VIDEO IN
S901
POWER
S903
VOLUME ▲
S902
VOLUME ▼
S906
HATCH
VHF tuner (BT-802)
UHF tuner (BT-842)
Q607 Transistor, 2SC867
(18V REG)
C901 Capacitor, 3300μF
35V (electrolytic)
L5503 Deflection Yoke <G>
L5507 Neck Ass'y <G>
C6114 Capacitor, 560μF
200V (electrolytic)
C6113 Capacitor, 560μF
200V (electrolytic)
R627 Resistor, 220Ω
40W (cement-coated)
R626 Resistor, 220Ω
40W (cement-coated)
T6106 Transformer,
power; PT (sub)
L5508 Neck Ass'y <R>
L5502
Deflection Yoke <R>
Q801
Transistor, 2SD725 (CONV)
Q5329
Transistor, 2SD725 (H. OUT)
L5504 Deflection Yoke <B>
L5509 Neck Ass'y <B>
Q605
Transistor, 2SC1114 (120V REG)
Q606
Transistor, 2SC1114 (120V REG)
Q6214
Transistor, 2SC1116A (HV REG)

1-4.

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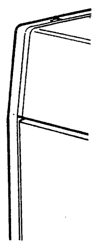

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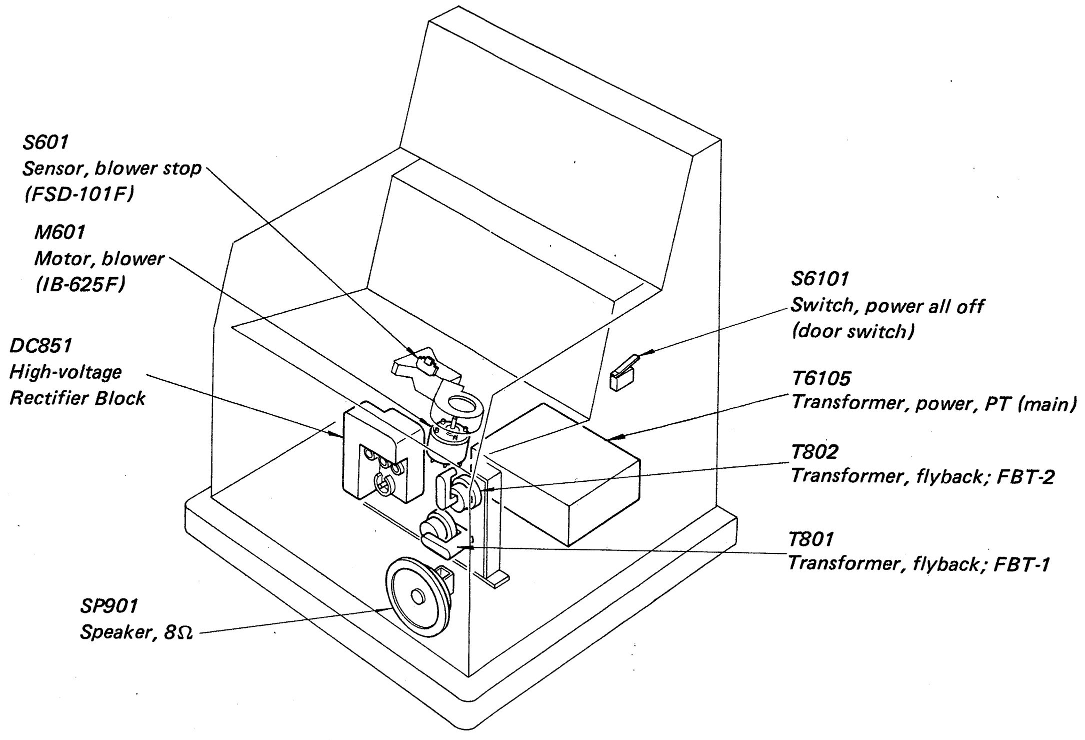
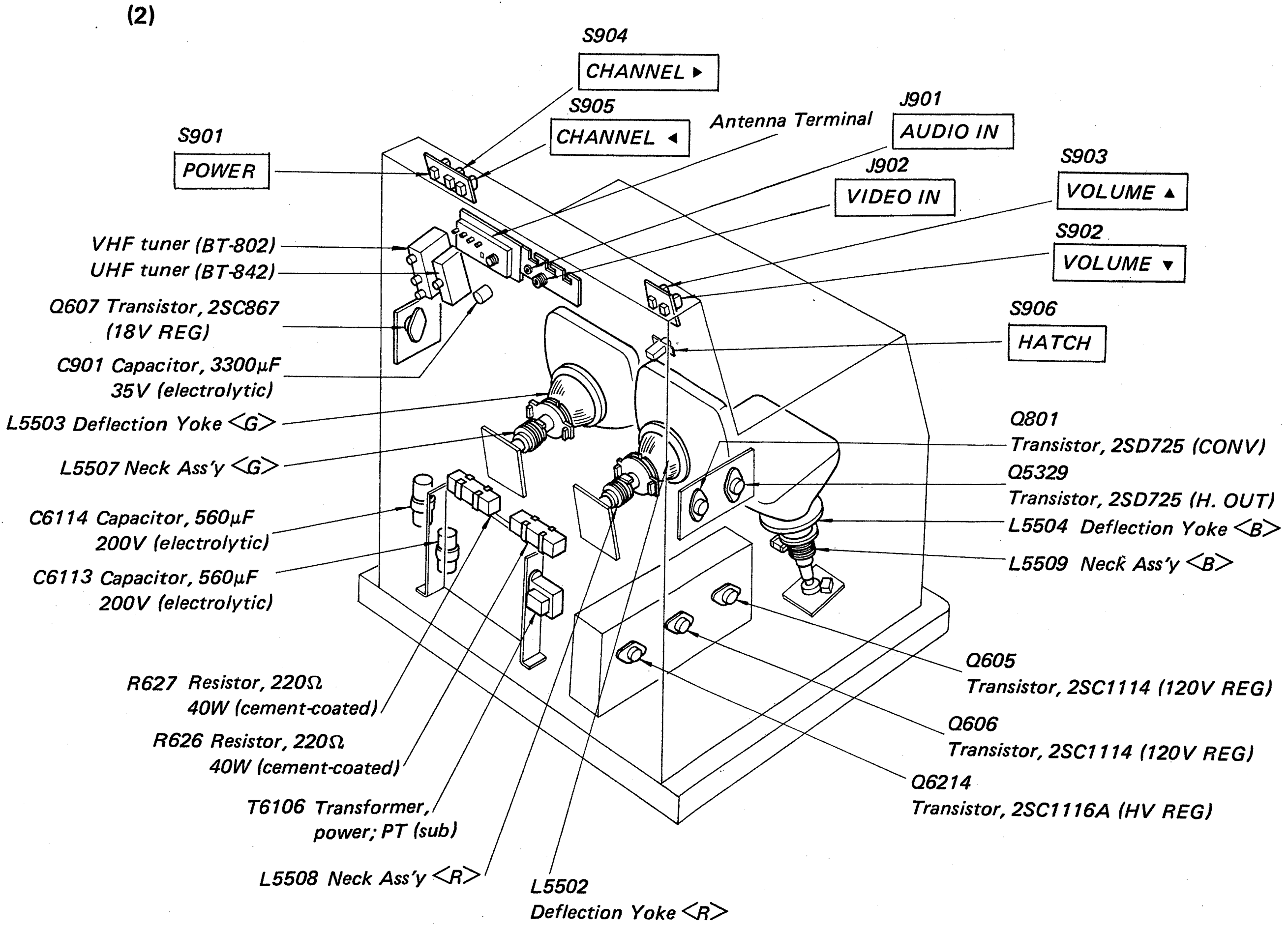
1-3. INTERNAL VIEWS

(1)

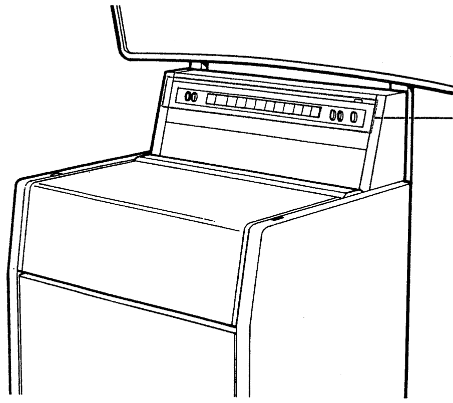

S601
Sensor, blower stop (FSD-101F)
M601
Motor, blower (IB-625F)
DC851
High-voltage Rectifier Block
SP901
Speaker, 8Ω
S6101
Switch, power all off (door switch)
T6105
Transformer, power, PT (main)
T802
Transformer, flyback; FBT-2
T801
Transformer, flyback; FBT-1

(2)


S904
CHANNEL ▸
S905
CHANNEL ◂
Antenna Terminal
J901
AUDIO IN
J902
VIDEO IN
S901
POWER
S903
VOLUME ▴
S902
VOLUME ▾
S906
HATCH
VHF tuner (BT-802)
UHF tuner (BT-842)
Q607 Transistor, 2SC867 (18V REG)
C901 Capacitor, 3300µF 35V (electrolytic)
L5503 Deflection Yoke <G>
L5507 Neck Ass'y <G>
C6114 Capacitor, 560µF 200V (electrolytic)
C6113 Capacitor, 560µF 200V (electrolytic)
R627 Resistor, 220Ω 40W (cement-coated)
R626 Resistor, 220Ω 40W (cement-coated)
T6106 Transformer, power; PT (sub)
L5508 Neck Ass'y <R>
L5502 Deflection Yoke <R>
Q801 Transistor, 2SD725 (CONV)
Q5329 Transistor, 2SD725 (H. OUT)
L5504 Deflection Yoke <B>
L5509 Neck Ass'y <B>
Q605 Transistor, 2SC1114 (120V REG)
Q606 Transistor, 2SC1114 (120V REG)
Q6214 Transistor, 2SC1116A (HV REG)

1-4. CHANNEL PRESETTING

Your Sony self-contained video tuner uses an electronic tuning system that is capable of receiving up to 12 television channels. Once you preset the channels, any channel can be selected either by pressing the CHANNEL ▶ or ◀ Button, or by using the hand-held remote commander (RM-601W).



These channels must be reset, and numbers changed accordingly, to match local TV stations.

Introduction

The Channel Indicators 2 through 13 are preadjusted at the factory to VHF channels 2–13. This results in blank positions interspersed with regular TV channels. Those positions may be used to receive local TV stations in your area. Any channel position can be set up to receive any local station, VHF or UHF.

SELECTING THE STATIONS

Determine and list which channels (up to 12) are to be set, and the order in which you would like them arranged. Consult your local TV listings to find out the channels in use ("active") in your area. Suppose that the following channels are active in your city:

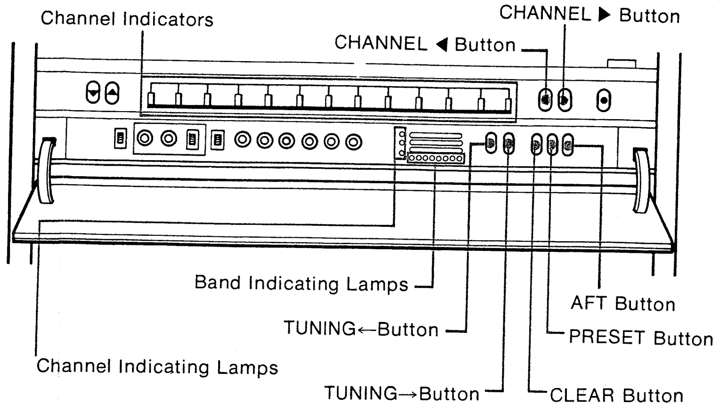
VHF: Channels 2, 4, 5, 7, 9, 11 and 13
UHF: Channels 21, 25, 31, 41 and 47

Then the positions would be arranged (in numerical order for convenience) as follows:
Enter your channel numbers below.

Position No. (from left to right)	Channel No.	Position No.	Channel No.
1	2	1	
2	4	2	
3	5	3	
4	7	4	
5	9	5	
6	11	6	
7	13	7	
8	21	8	
9	25	9	
10	31	10	
11	41	11	
12	47	12	

Note that all 12 positions are used to receive television channels. There are no blank position (in this example).

ADJUSTING THE CHANNELS


Channel Indicators
CHANNEL ▶ Button
CHANNEL ◀ Button
Band Indicating Lamps
AFT Button
TUNING← Button
PRESET Button
Channel Indicating Lamps
TUNING→ Button
CLEAR Button

Press the POWER Button to switch on the projector. Open the front compartment lid to expose the presetting controls. Set the TV/VTR Switch to TV.

1 Depress the PRESET Switch to ON.
2 Tune in the VHF Channel 3 (position 2) with the CHANNEL [▶] or [◀] Button.
  Each momentary press change one channel setting, and channels change continuously as long as these buttons are held down. (In the foregoing example, the leftmost position was reserved for VHF Channel 2 and that position was preadjusted at the factory to VHF Channel 2, thus no preset tuning is required.)
3 Press the CLEAR Button.
  (Presetting of the VHF Channels 3–13, in our example, will be canceled and the picture will disappear.)
4 Press the TUNING [→] Button.
  (Tuning will continue automatically until the lowest-numbered active channel – Channel 2 in our example – is received.
  The red Band Indicating Lamp and the leftmost Channel Indicating Lamp will light.)
  Press the TUNING [→] Button again.
  (Tuning will continue automatically until the second lowest-numbered channel – Channel 4 in our example – is received.
  The red Band Indicating Lamp and the Channel Indicating Lamp(s) in the center will light.)
5 Tune in the position 3 with the CHANNEL [▶] Button.
  (The position 2 picture will appear.)
  Press the TUNING [→] Button
  (The third lowest-numbered channel – Channel 5 in our example – will be received).
  - The Channel Indicating Lamps provide a visual indication of the approximate channel location within the operating range of the band:
    For Channels 2 through 6, red lamp lights
    For Channels 7 through 13, yellow lamp lights
    For Channels 14 through 83, blue lamp lights.

- To identify the channels, consult a newspaper or TV program guide, or use another TV set if available, to view what is being telecast during the adjustments.
- To skip the unused position in remote control operation, press the CLEAR Button at that position.

Repeat Step 5 procedure for all the active channels in your area. When all stations have been set up as desired, set the PRESET Switch to OFF.

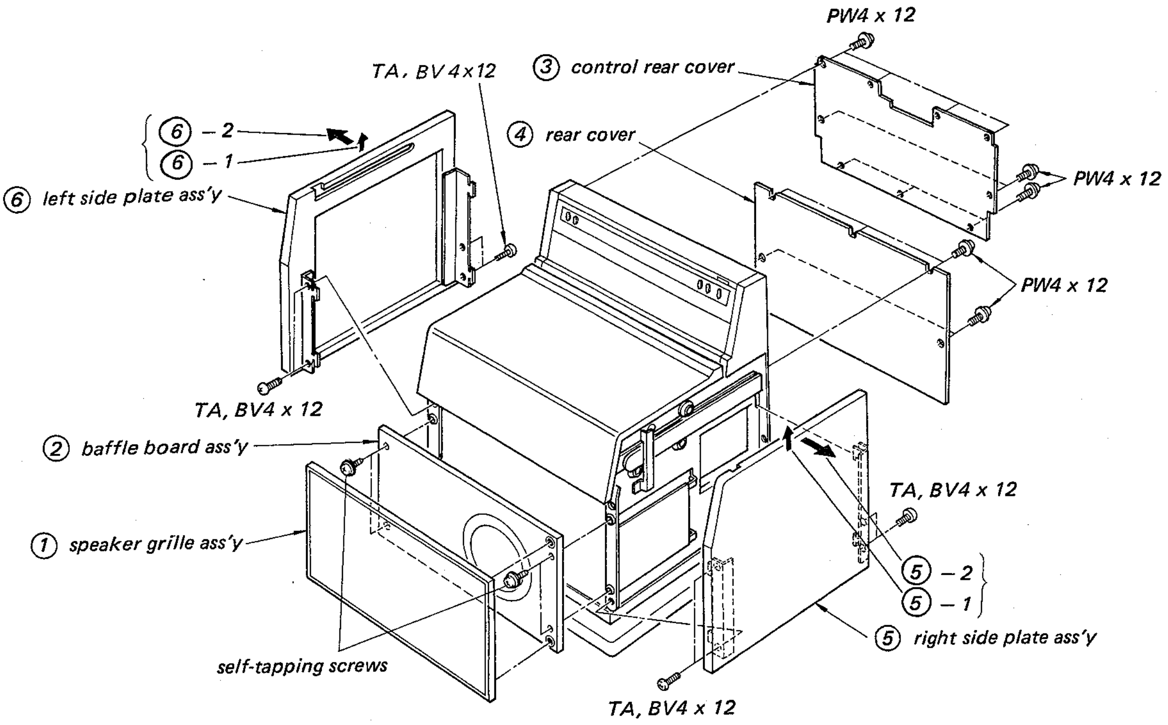
Remove the channel number segments from the Channel Indicators and replace the number segments with the correct ones from the supplied number sheets as illustrated on Page 13. Replace the segments in the original positions.

- With the PRESET Switch ON, tuning, AFT and remote control circuits do not function. After the adjustments have been completed be sure to set the PRESET Switch to OFF.

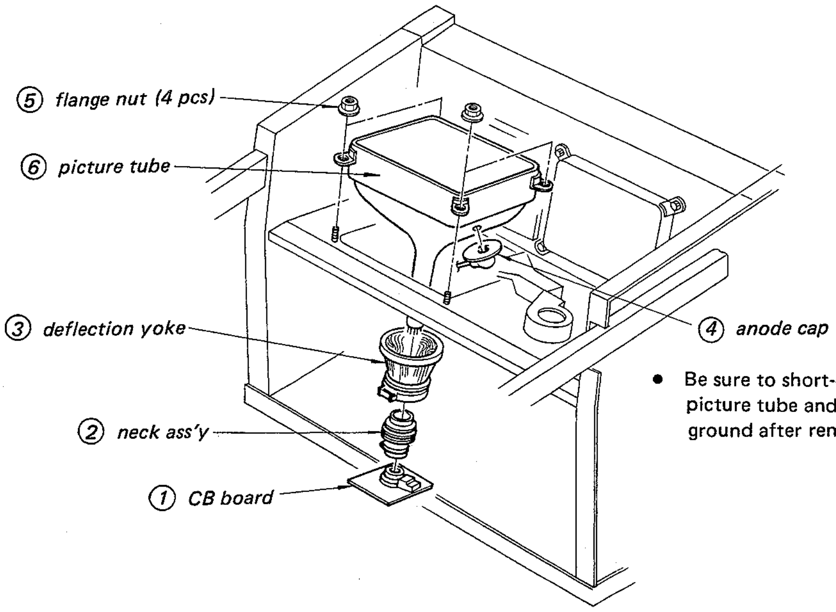
SECTION 2
DISASSEMBLY AND REPLACEMENT

Note:
- Follow the disassembly procedure in the numerical order given.
- All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

2-1. CABINET REMOVAL


PW4 x 12
TA, BV4x12
③ control rear cover
④ rear cover
⑥ – 2
⑥ – 1
⑥ left side plate ass'y
PW4 x 12
PW4 x 12
TA, BV4 x 12
② baffle board ass'y
TA, BV4 x 12
① speaker grille ass'y
⑤ – 2
⑤ – 1
⑤ right side plate ass'y
self-tapping screws
TA, BV4 x 12

2-2. PICTURE TUBE <B> REMOVAL

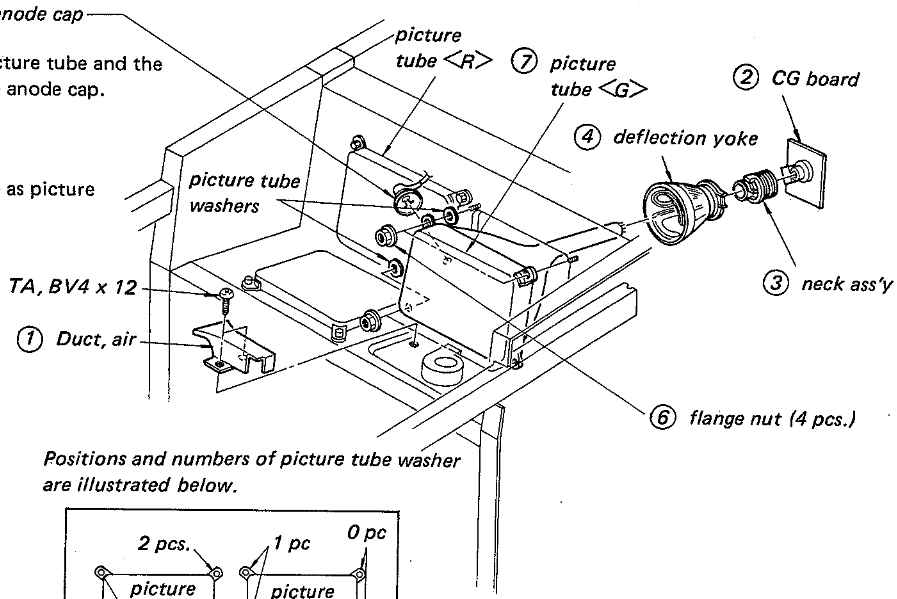

⑤ flange nut (4 pcs)
⑥ picture tube
③ deflection yoke
④ anode cap
② neck ass'y
① CB board

- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

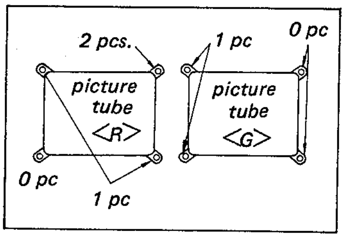
2-3. PICTURE TUBE <R·G> REMOVAL

- Be sure to short-circuit the anode of picture tube and the anode cap to ground after removing the anode cap.

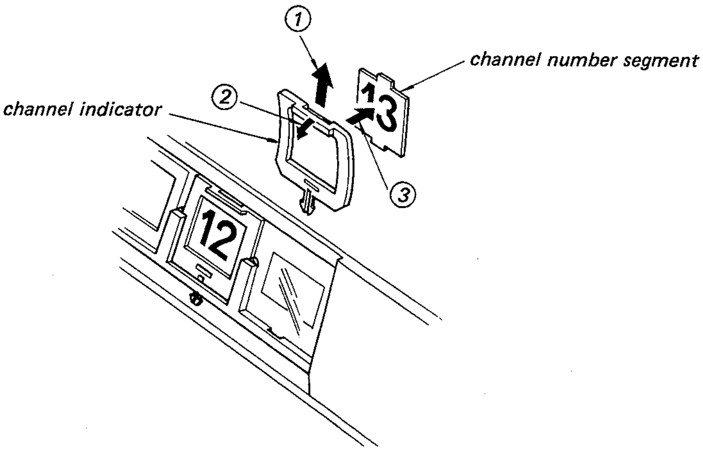
Note:
Picture tube <R> removal is the same as picture tube <G> removal.


⑤ anode cap
picture tube <R>
⑦ picture tube <G>
② CG board
④ deflection yoke
picture tube washers
TA, BV4 x 12
① Duct, air
③ neck ass'y
⑥ flange nut (4 pcs.)

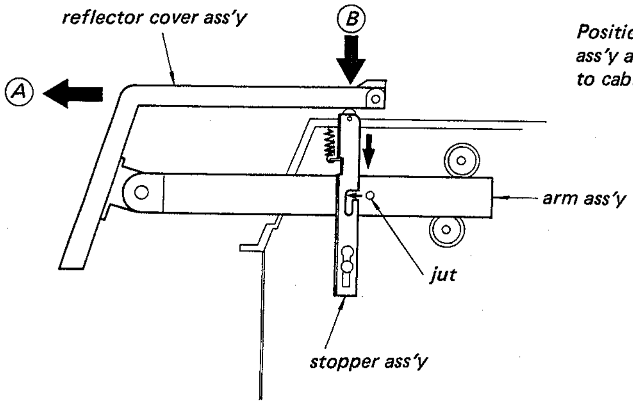
Positions and numbers of picture tube washer are illustrated below.


2 pcs.
1 pc
0 pc
picture tube <R>
picture tube <G>
0 pc
1 pc

2-4. CHANNEL NUMBER SEGMENTS REMOVAL


①
②
③
channel indicator
channel number segment
13
12

2-5. REFLECTOR COVER ATTACHMENT


reflector cover ass'y
Ⓐ
Ⓑ
arm ass'y
jut
stopper ass'y

Position the jut of arm ass'y in the cut-out of the stopper ass'y as shown, and attach the side plate ass'y (right, left) to cabinet.

(With reflector cover ass'y pressed in the direction shown by the arrow Ⓑ, pull it in the direction shown by the arrow Ⓐ, and the jut of arm ass'y can be installed in the cut-off.)

SECTION 3
SETUP ADJUSTMENTS

3-1. REGISTRATION ADJUSTMENTS

- Before starting the adjustment, proceed the following procedures.
  - Degauss the whole chassis.
  - Set the unit toward the north as shown in Fig. 3-1.

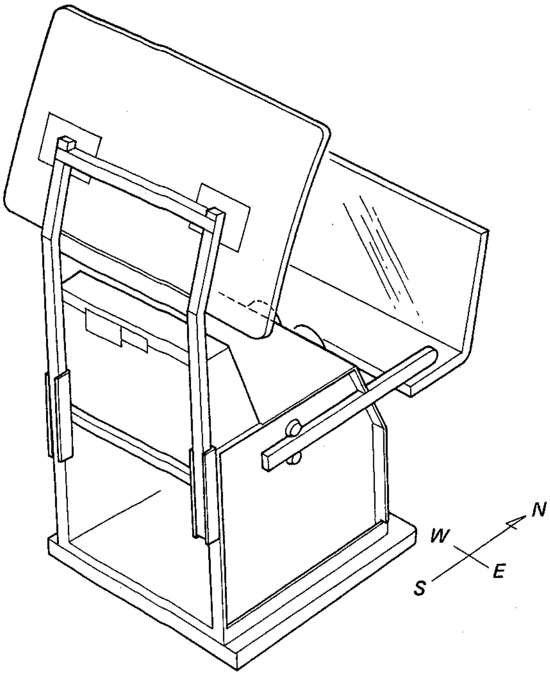


Fig. 3-1

- Set the three neck assemblies and the deflection yokes as shown in Fig. 3-2.

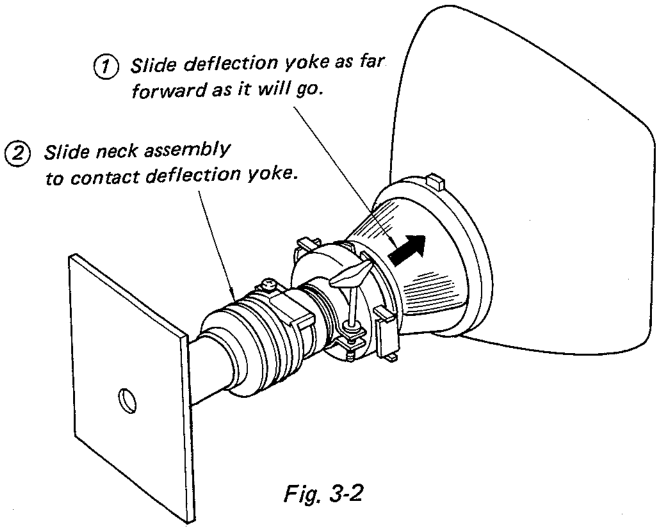

① Slide deflection yoke as far forward as it will go.
② Slide neck assembly to contact deflection yoke.

Fig. 3-2

- Controls and switches should be set as follows:

HATCH switch ········· TEST
TV/VTR switch ······· TV
BRIGHT control ······ fully clockwise (maximum)
PUCTURE control ···· fully clockwise (maximum)

(1) PICTURE TUBE FOCUS ADJUSTMENT

1) Set POWER switch to ON.
2) Look at the picture tube <G> through the lens and adjust RV801 for best focus. (Fig. 3-3)

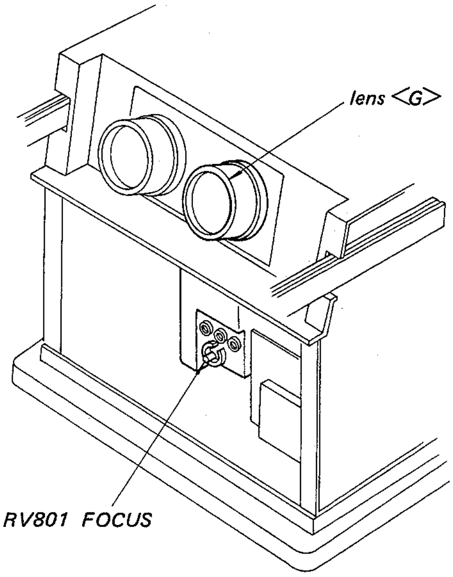

lens <G>
RV801 FOCUS

Fig. 3-3

3) Set the POWER switch to OFF.
4) Set the de-focus magnet as shown in Fig. 3-4 and apply suitable locking compound.

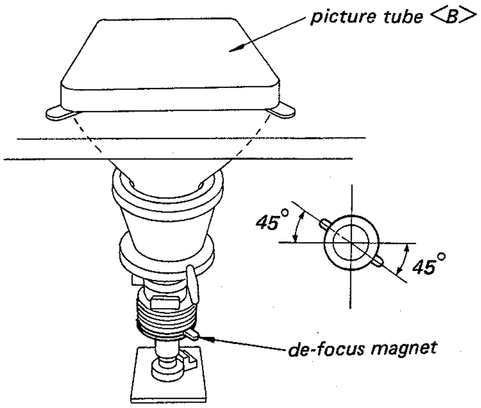

picture tube <B>
45°
45°
de-focus magnet

Fig. 3-4

(2) LENS FOCUS ADJUSTMENTS

1) Disconnect the BA-8 connector from BA board.
2) Cover the lens<R>/<B>with a cap or equivalent.
3) Set the POWER switch to ON.
4) Turn the lens <G> for best focus on the screen.
5) Tighten the set-screw<G>in position.
6) Remove the cap on the lens<R>/<B>and cover the lens<G>with a cap or equivalent.
7) Turn the lens <R> / <B> for best focus on the screen.
8) Tighten the set-screw<R>/<B>in position. (Fig. 3-5)

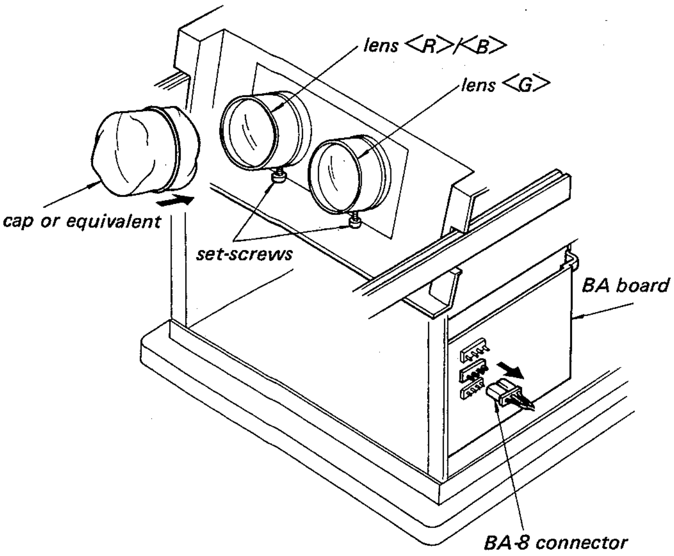

lens <R>/<B>
lens <G>
cap or equivalent
set-screws
BA board
BA-8 connector

Fig. 3-5

(3) RED PICTURE ADJUSTMENT

1) Disconnect the BA-8 connector from the BA board, and cover the lens <G> with a cap or equivalent.
2) Rotate the red deflection yoke to make the horizontal center line of cross-hatch pattern horizontal as shown in Fig. 3-6.

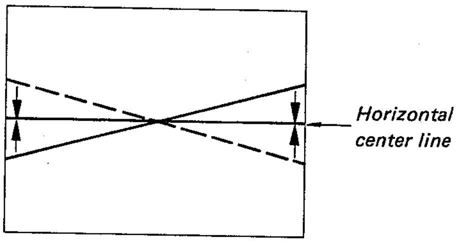

Horizontal center line

Fig. 3-6

3) Tighten the deflection yoke screw in position.
4) Position the neck assembly as shown in Fig. 3-7.

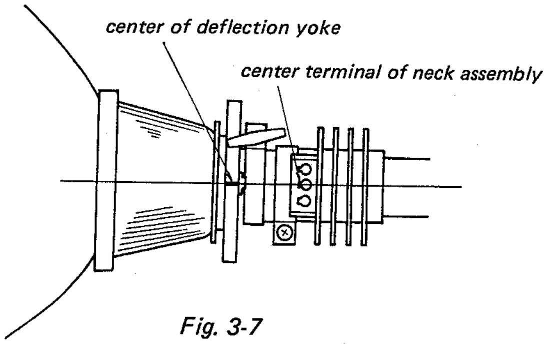

center of deflection yoke
center terminal of neck assembly

Fig. 3-7

5) Adjust RV5307 (H. SKEW<R>) to make the vertical center line of cross-hatch pattern vertical as shown in Fig. 3-8.

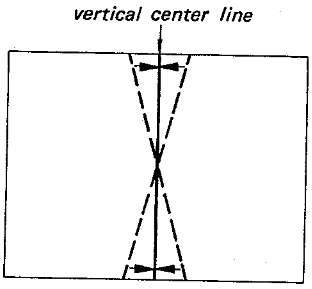

vertical center line

Fig. 3-8 (1)

Movement of H. SKEW (RV5307<R>)

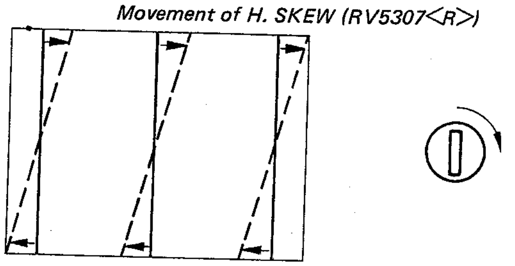


Fig. 3-8 (2)

6) Set the HATCH switch to NORMAL. (Fig. 3-9)

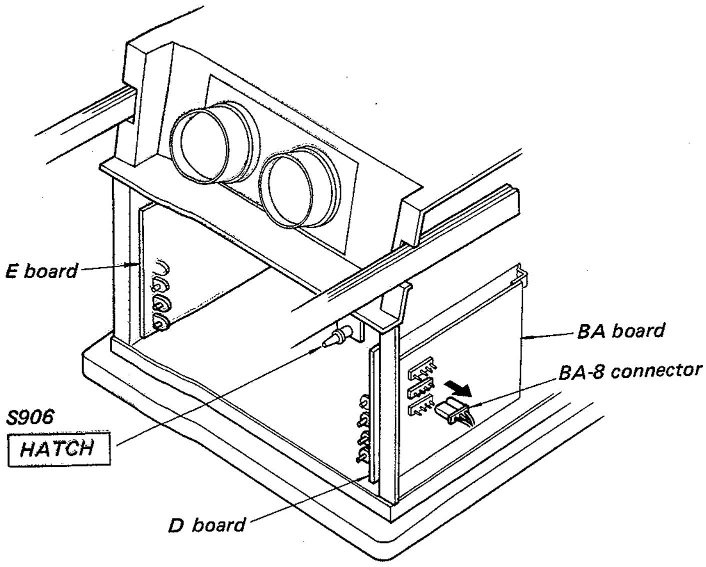

E board
BA board
BA-8 connector
S906
HATCH
D board

Fig. 3-9

7) Turn the PICTURE control 4/5 (80%) turns clockwise, and the BRIGHT control to mechanical-mid position.

8) Make the following adjustments.

① H. CENT<R>RV5308 . . . . E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is a little less than the screen size.

C) Adjust RV5308 (H. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-10.

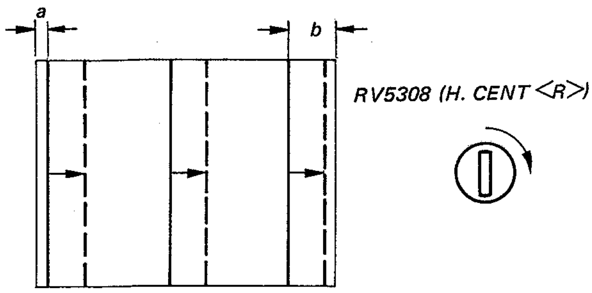

a
b
RV5308 (H. CENT <R>)

Fig. 3-10

D) Make H. SIZE (RV5306<R>) adjustment.

② H. SIZE<R>RV5306 . . . . E board

A) Tune in an off-air signal.

B) Adjust RV5306 (H. SIZE<R>) so that the horizontal picture size is as shown in Fig. 3-11 (1).

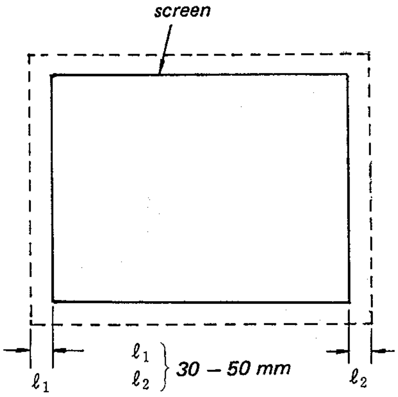

screen
ℓ1
ℓ1
ℓ2 } 30 – 50 mm
ℓ2

Fig. 3-11 (1)

Movement of H. SIZE (RV5306 <R>)

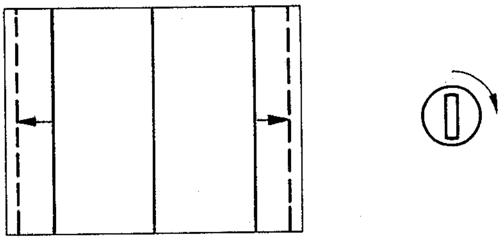


Fig. 3-11 (2)

③ V. CENT<R>RV5502 . . . . D board

A) Tune in an off-air signal.

B) Adjust RV5501 (V. SIZE<R>) so that the vertical picture size is a little less than the screen size.

C) Adjust RV5502 (V. CENT<R>) so that "a" is equal to "b" as shown in Fig. 3-12.

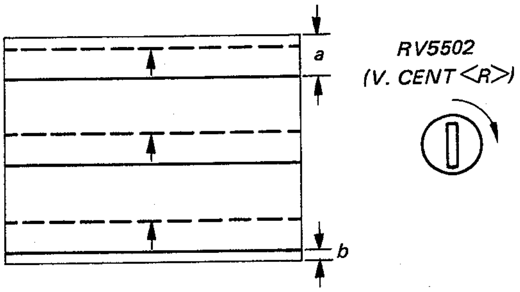

a
b
RV5502
(V. CENT <R>)

Fig. 3-12

D) Make V. SIZE<R>(RV5501) adjustment.

④ V. SIZE<R>RV5501 . . . . D board

A) Tune in an off-air signal.

B) Adjust RV5501 (V. SIZE<R>) so that the vertical picture size is as shown in Fig. 3-13 (1).

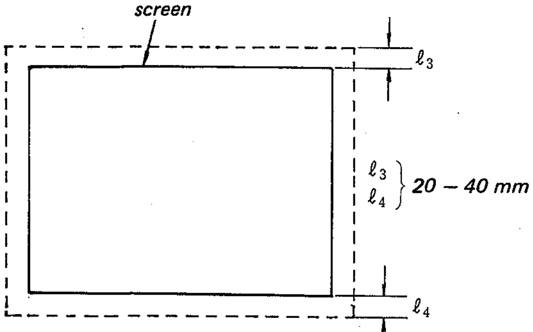

screen
ℓ_3
ℓ_3 ℓ_4 } 20 – 40 mm
ℓ_4

Fig. 3-13 (1)

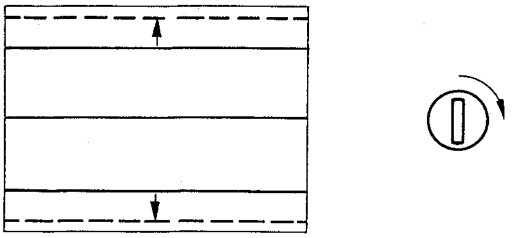

Movement of V. SIZE (RV5501 <R>)

Fig. 3-13 (2)

If the V. CENT<R> adjustment can not be obtained by the step ③ , make the following adjustment,

A) Adjust RV5502 (V. CENT<R>) for mechanical-mid position.

B) Tune in an off-air signal.

C) Adjust RV5501 (V. SIZE <R>) so that the vertical picture size is a little less than the screen size.

D) Adjust the screw so that the picture is at the center of the screen as shown in Fig. 3-14.

E) Make the V. CENT (RV5502<R>) and the V. SIZE (RV5501<R>) adjustments. (Fig. 3-14)

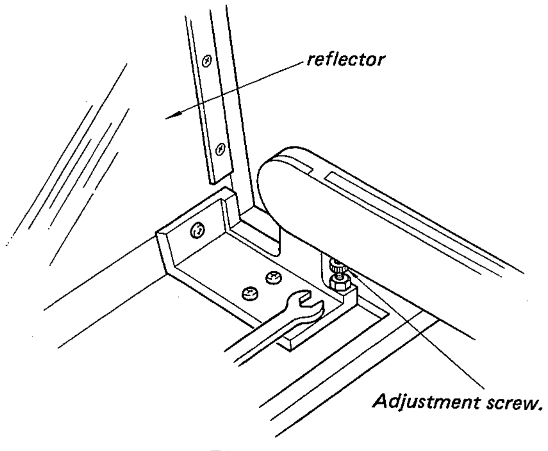

reflector
Adjustment screw.

Fig. 3-14

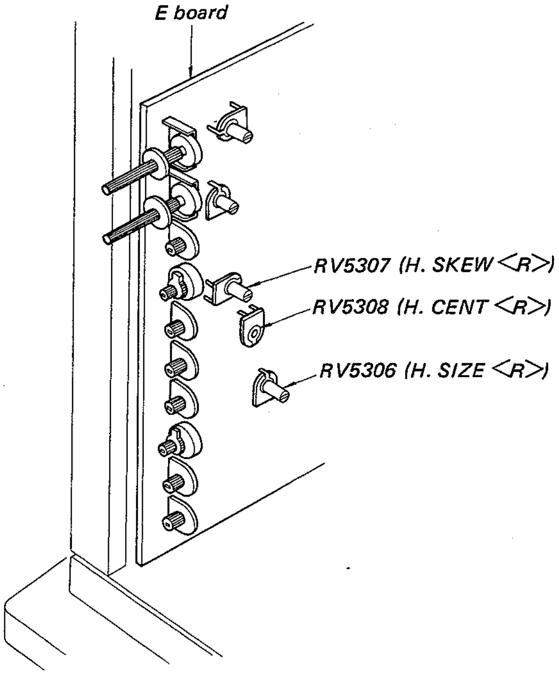

E board
RV5307 (H. SKEW <R>)
RV5308 (H. CENT <R>)
RV5306 (H. SIZE <R>)

Fig. 3-15

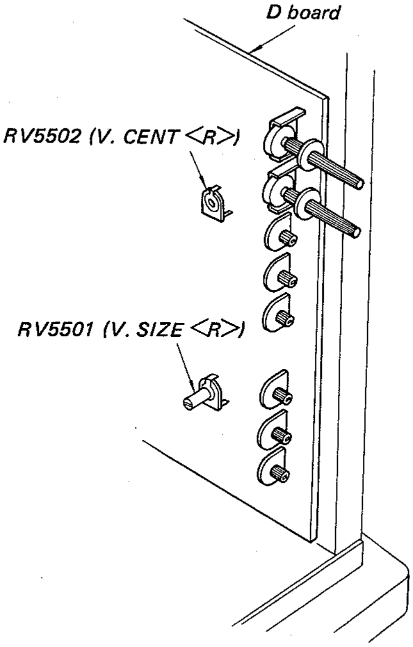

D board
RV5502 (V. CENT <R>)
RV5501 (V. SIZE <R>)

Fig. 3-16

(4) VERTICAL ADJUSTMENT OF RED AND GREEN PICTURES

1) Set the HATCH switch to TEST.
2) Disconnect the BA-8 connector from the BA board.
3) Adjust RV5506 (V. CENT <G>) to approach the green horizontal center line to the red horizontal center line properly for easier adjustment.
4) Rotate the deflection yoke<G>so that the green horizontal center line is parallel with the red horizontal center line (Fig. 3-17) or “ℓ_1” (“ℓ_3”) is equal to “ ℓ_2” (“ℓ_4”) (Fig. 3-18).

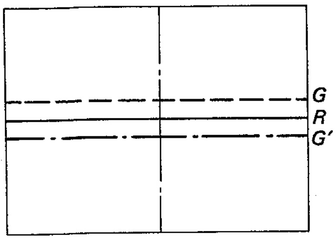


Fig. 3-17

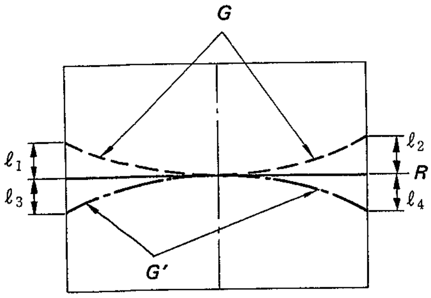


Fig. 3-18

5) Tighten the deflection yoke screw<G>in position
6) A) When the green horizontal center line is positioned as shown in Fig. 3-17;
   Adjust RV5506 (V. CENT<G>) to converge the green horizontal center line and red horizontal center line.
   B) When the green horizontal center line is position as shown in Fig. 3-18;
      ① Rotate the neck assembly<G>so that the green horizontal center line is parallel with the red horizontal center line, and tighten neck assembly screw <G> in position.
      ② Perform the step A). (Fig. 3-19)

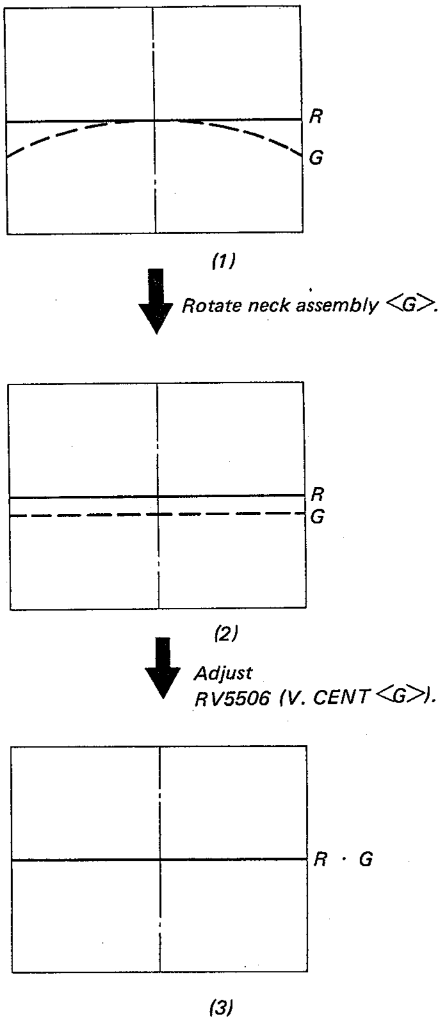


Fig. 3-19

7) When the green horizontal center line is slanting as shown in Fig. 3-20.

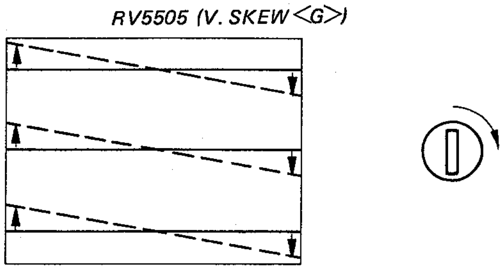
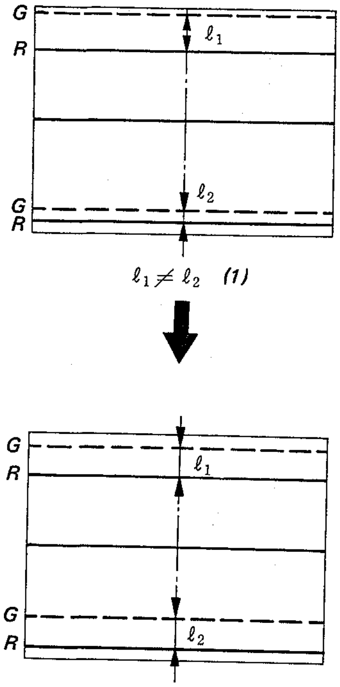


Fig. 3-20

① Adjust RV5505 (V. SKEW <G>) so that the red horizontal center line is parallel with the green horizontal center line.
② Repeat the procedures 6) and 7).

8) When the vertical adjustment can not be obtained by using RV5505 (V. SKEW<G>), set RV5505 (V. SKEW <G>) to the mechanical-mid position and perform the step (4) through (7) again.
9) Adjust RV5503 (V. SIZE <G>) so that "ℓ_1" is equal to "ℓ_2" as shown in Fig. 3-21.



$\ell_1 \neq \ell_2$ (1)

$\ell_1 = \ell_2$ (2)

Fig. 3-21

10) Adjust RV5504 (V. LIN<G>) so that "ℓ_1", "ℓ_2" and "ℓ_3" are equal as shown in Fig. 3-22 (1).

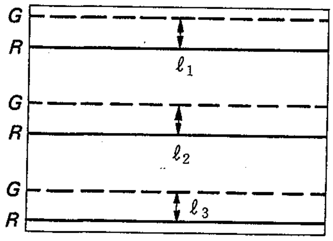


Fig. 3-22 (1)

Movement of V. LIN (RV5504 <G>)

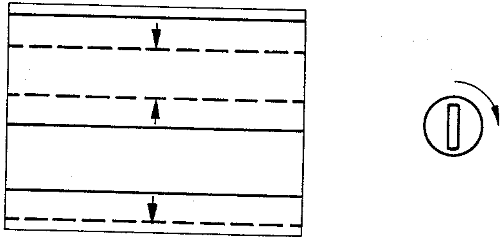


Fig. 3-22 (2)

11) Adjust RV5506 (V. CENT <G>) to converge the green horizontal lines and the red horizontal lines as shown in Fig. 3-23 (1).

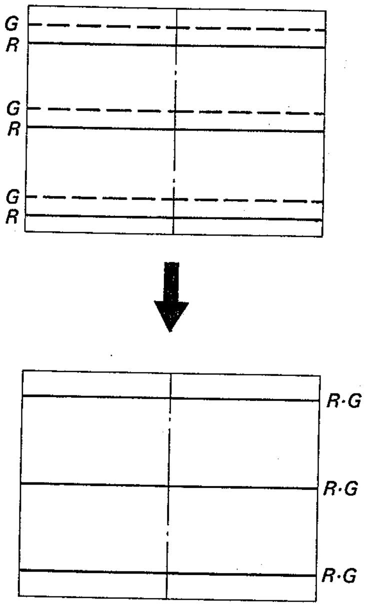


Fig. 3-23 (1)

Movement of RV5506 (V. CENT <G>)

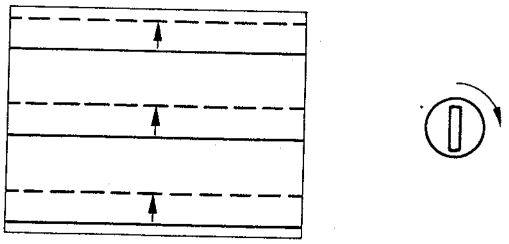
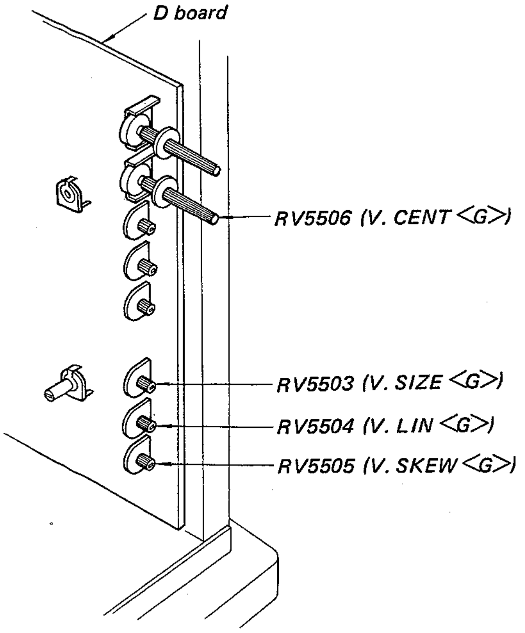


Fig. 3-23 (2)

If necessary, repeat the steps 9) through 11).



D board
RV5506 (V. CENT <G>)
RV5503 (V. SIZE <G>)
RV5504 (V. LIN <G>)
RV5505 (V. SKEW <G>)

Fig. 3-24

(5) HORIZONTAL ADJUSTMENT OF RED AND GREEN PICTURES

1) Set the HATCH switch to TEST.
2) Disconnect the BA-8 connector from the BA board.
3) Adjust RV5305 (H. CENT <G>) to approach the green vertical center line to the red vertical center line properly for easier adjustment.
4) Adjust RV5503 (H. SKEW<G>) so that the green vertical center line is parallel with the red vertical center line (Fig. 3-25) or " ℓ_1" (" ℓ_3 ") is equal to " ℓ_2" (" ℓ_4") (Fig. 3-26).

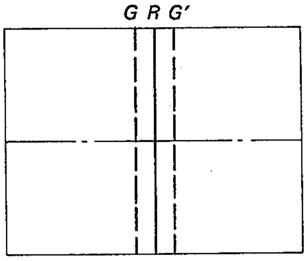
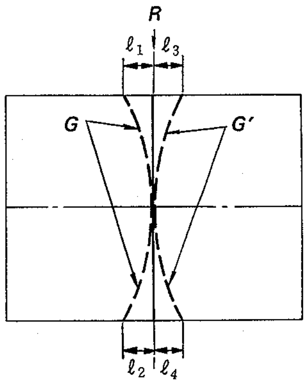


Fig. 3-25



R
ℓ_1
ℓ_3
G
G'
ℓ_2
ℓ_4

Fig. 3-26

Movement of RV5303 (H. SKEW <G>)

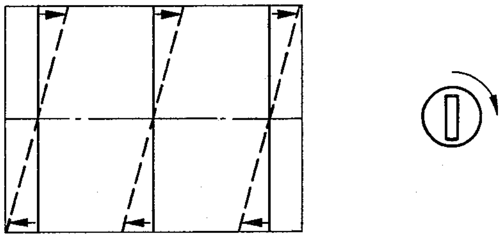


Fig. 3-27

5) A) When the green center line is positioned as shown in Fig. 3-25;
Adjust RV5305 (H. CENT<G>) to cenverge the green vertical center line and the red vertical center line.

B) When the green center line is positioned as shown in Fig. 3-26;
① Adjust RV5304 (H. BOW<G>) so that the vertical center line is parallel with the red vertical center line.
② Perform the step A).

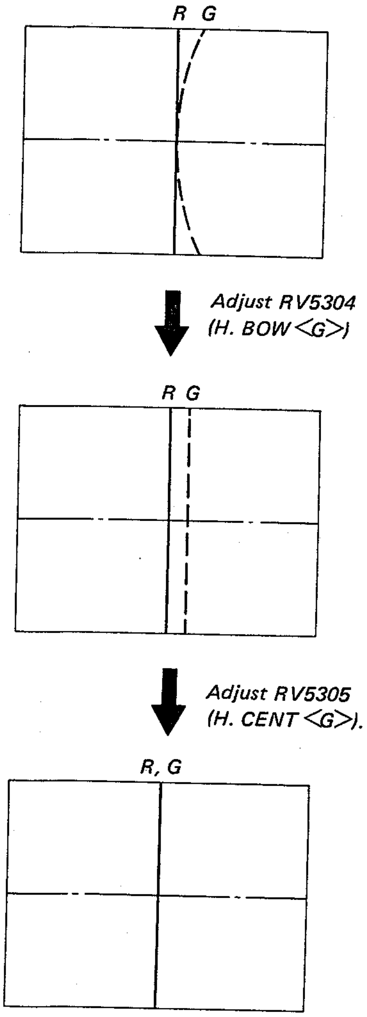

R G
Adjust RV5304
(H. BOW<G>)
R G
Adjust RV5305
(H. CENT<G>).
R, G

Fig. 3-28 (1)

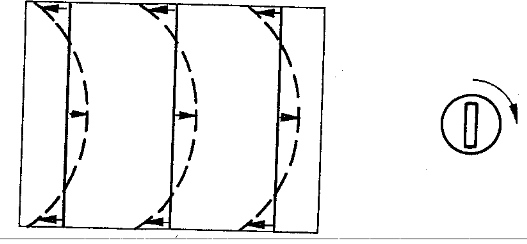

Movement of RV5304 (H. BOW<G>).

Fig. 3-28 (2)

6) Adjust RV5301 (H. KEYS<G>) so that the green vertical lines are parallel with the red vertical lines on the entire screen in Fig. 3-29 (1).

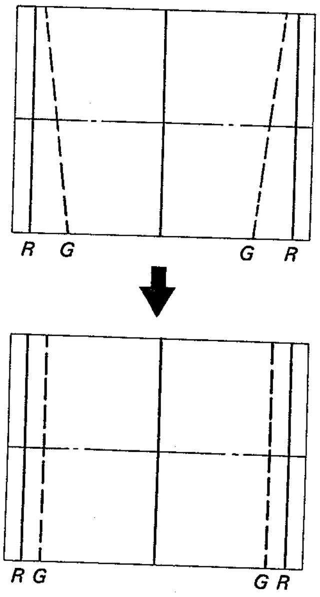


Fig. 3-29 (1)

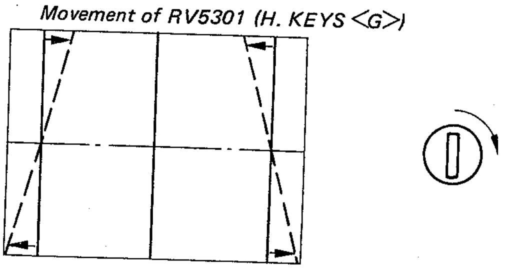

Movement of RV5301 (H. KEYS <G>)

Fig. 3-29 (2)

7) Adjust RV5302 (H. SIZE <G>) so that "ℓ_1" is equal to "ℓ_2" as shown in Fig. 3-30 (1).

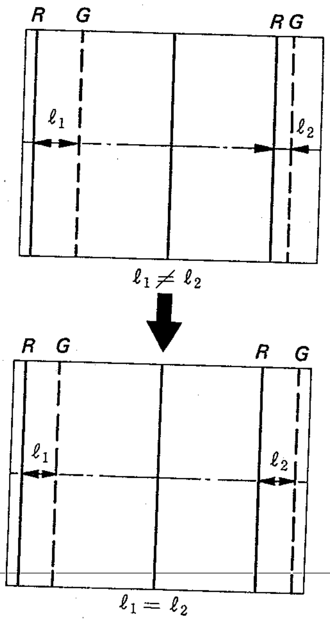

R G
R G
ℓ_1
ℓ_2
$\ell_1 \neq \ell_2$
R G
R G
ℓ_1
ℓ_2
$\ell_1 = \ell_2$

Fig. 3-30 (1)

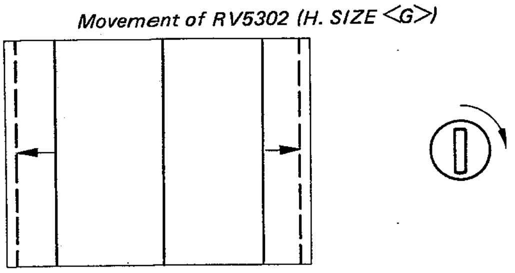

Movement of RV5302 (H. SIZE <G>)

Fig. 3-30 (2)

8) Adjust RV5315 (H. LIN<G>) so that "ℓ_1", "ℓ_2" and "ℓ_3" are equal as shown in Fig. 3-31 (1).

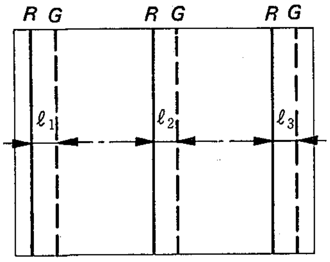

R G
R G
R G
ℓ_1
ℓ_2
ℓ_3

Fig. 3-31 (1)

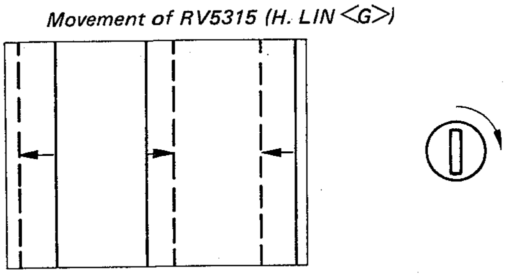

Movement of RV5315 (H. LIN <G>)

Fig. 3-31 (2)

9) Adjust RV5305 (H. CENT<G>) to converge the green vertical lines and the red vertical lines as shown in Fig. 3-32 (1).

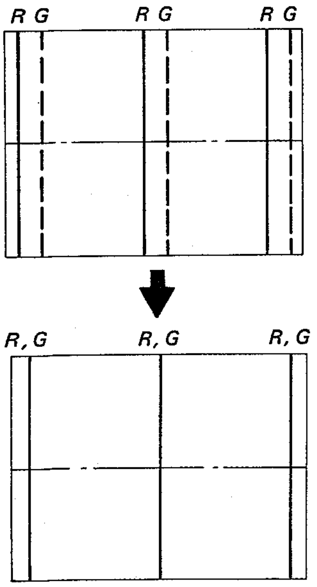

R G
R G
R G
R, G
R, G
R, G

Fig. 3-32 (1)

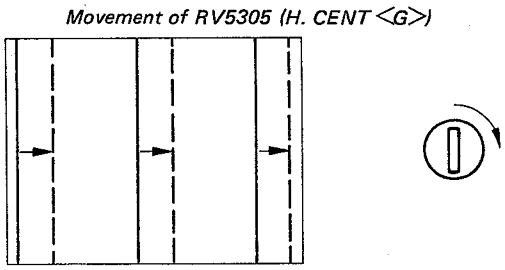

Movement of RV5305 (H. CENT <G>)

Fig. 3-32 (2)

If necessary, repeat the steps 7) through 9).

10) When the green vertical lines slanting at the both sides of the screen as shown in Fig. 3-33; Readjust RV5301 (H. KEYS<G>) so that "ℓ_1" is equal to "ℓ_2".

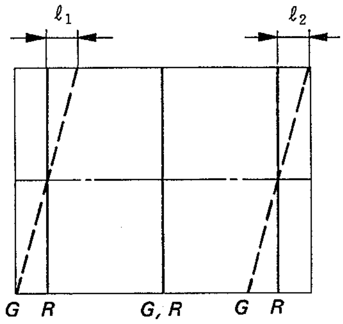

ℓ_1
ℓ_2
G R
G, R
G R

Fig. 3-33

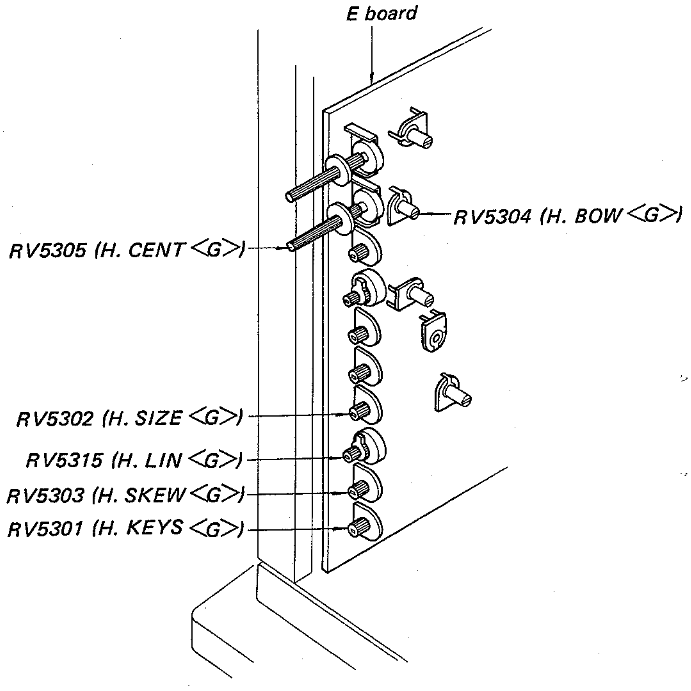

E board
RV5304 (H. BOW <G>)
RV5305 (H. CENT <G>)
RV5302 (H. SIZE <G>)
RV5315 (H. LIN <G>)
RV5303 (H. SKEW <G>)
RV5301 (H. KEYS <G>)

Fig. 3-34

(6) FINE ADJUSTMENT OF GREEN AND RED VERTICAL AND HORIZONTAL PICTURES

When the mis-resistration appears at the corners on the screen, affix a permalloy ass'y as shown in Fig. 3-35.

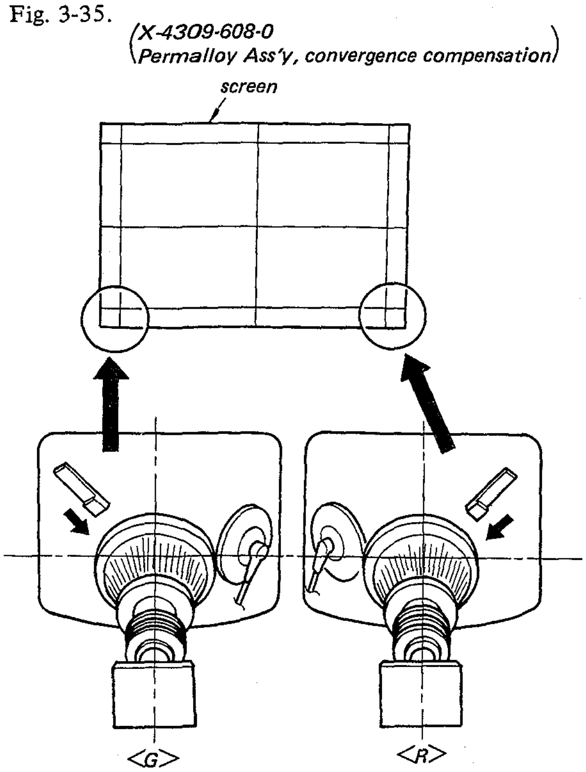

(X-4309-608-0
Permalloy Ass'y, convergence compensation)
screen
<G>
<R>

Fig. 3-35

(8) VERTICAL AND HORIZONTAL ADJUSTMENTS OF RED AND BLUE PICTURES

1) Set HATCH switch to TEST.
2) Connect the BA-8 connector on the BA board.
3) Cover the lens <G> with a cap or equivalent.
4) Adjust RV5313 (H. CENT<B>) and RV5510 (V. CENT<B>) to approach the center of blue cross-hatch pattern to center of red cross-hatch pattern.

Make the following adjustments (Refer to the RED AND GREEN PICTURE ADJUSTMENTS as described in the procedure (4), (5) and (6).

• VERTICAL ADJSTMENT RED AND BLUE PICTURES

1) Rotation of deflection yoke<B>.
2) Rotation of neck assembly<B>.
3) RV5510 (V. CENT<B>)
4) RV5509 (V. SKEW<B>)
5) If necessary, repeat the above steps.
6) RV5507 (V. SIZE<B>)
7) RV5508 (V. LIN<B>)
8) RV5510 (V. CENT<B>)
9) If necessary, repeat the steps 6) through 8).

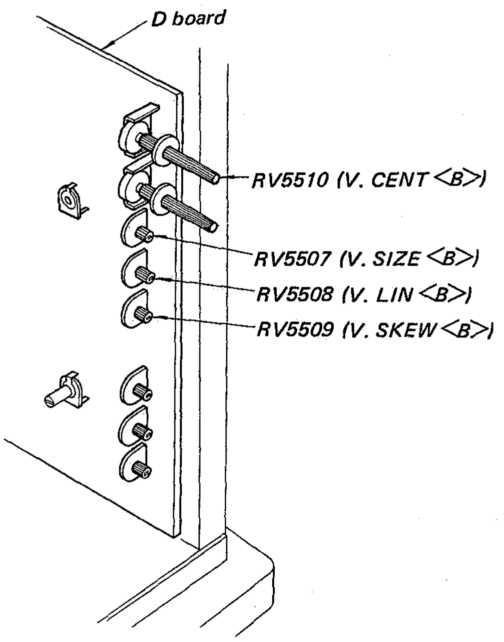

D board
RV5510 (V. CENT<B>)
RV5507 (V. SIZE<B>)
RV5508 (V. LIN<B>)
RV5509 (V. SKEW<B>)

Fig. 3-36

• HORIZONTAL ADJUSTMENT RED AND BLUE PICTURES

1) RV5311 (H. SKEW<B>)
2) RV5312 (H. BOW<B>)
3) RV5313 (H. CENT<B>)
4) If necessary, repeat the above steps.
5) RV5309 (H. KEYS<B>)
6) RV5310 (H. SIZE<B>)
7) RV5314 (H. LIN<B>)
8) RV5313 (H. CENT<B>)
9) If necessary, repeat the steps 5) through 8).
10) RV5309 (H. KEYS<B>)

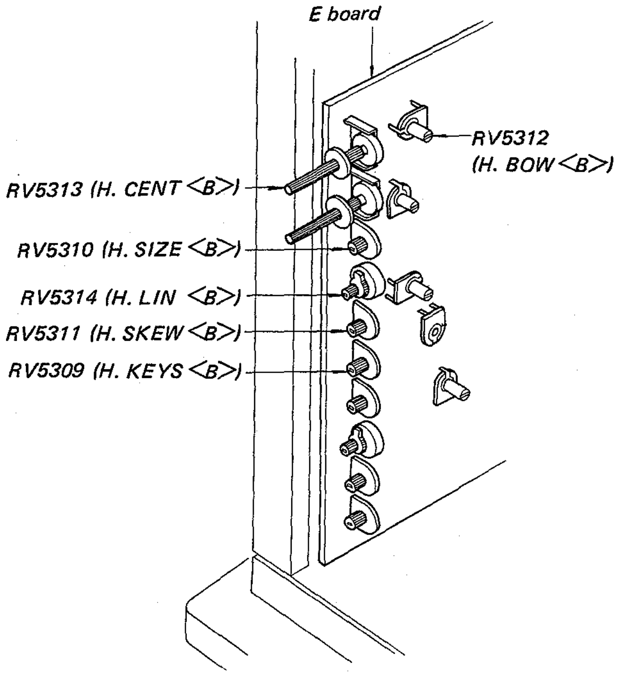

E board
RV5312
(H. BOW<B>)
RV5313 (H. CENT<B>)
RV5310 (H. SIZE<B>)
RV5314 (H. LIN <B>)
RV5311 (H. SKEW<B>)
RV5309 (H. KEYS<B>)

Fig. 3-37

3-2. WHITE BALANCE ADJUSTMENT

1) Controls and switches should be set as follows;
   HATCH siwtch .... NORMAL
   TV/VTR switch .... TV
   AUTO switch .... OFF
   COLOR control .... fully counterclockwise
2) Tune in an off-air signal.
3) Set RV5451 (SCRN-B), RV5452 (SCRN-G) and RV5453 (SCRN-R) to mechanical-mid position.
4) Turn the BRIGHT and the PICTURE controls fully counterclockwise.
5) Cover the lens<R>/<B>with a cap or equivalent.
6) Turn RV5452 (SCRN-G) slowly to obtain a faintly visible cross-hatch on the screen.
7) Remove the cap.
8) Adjust RV5451 (SCRN-B) and RV5453 (SCRN-R) for best white balance (neatral gray) of faint cross-hatch.
9) Turn the BRIGHT and the PICTURE controls fully clockwise.
10) Adjust RV304 (B. DRIVE) and RV305 (R. DRIVE) for best white balance.
11) Repeat the above steps 8) through 10) two or three times.

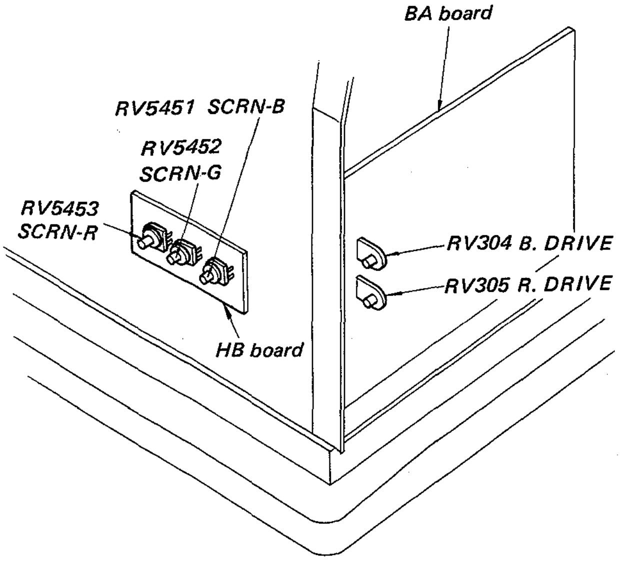


Fig. 3-38

SECTION 4
CIRCUIT ADJUSTMENTS

Note:

(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Digital multimeter
4. Color-bar/pattern generator

(2) INPUT SIGNAL

When making these adjustments, feed in a cross-hatch, color-bar or an off-air signal.

(3) CONTROL AND SWITCH SETTINGS

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

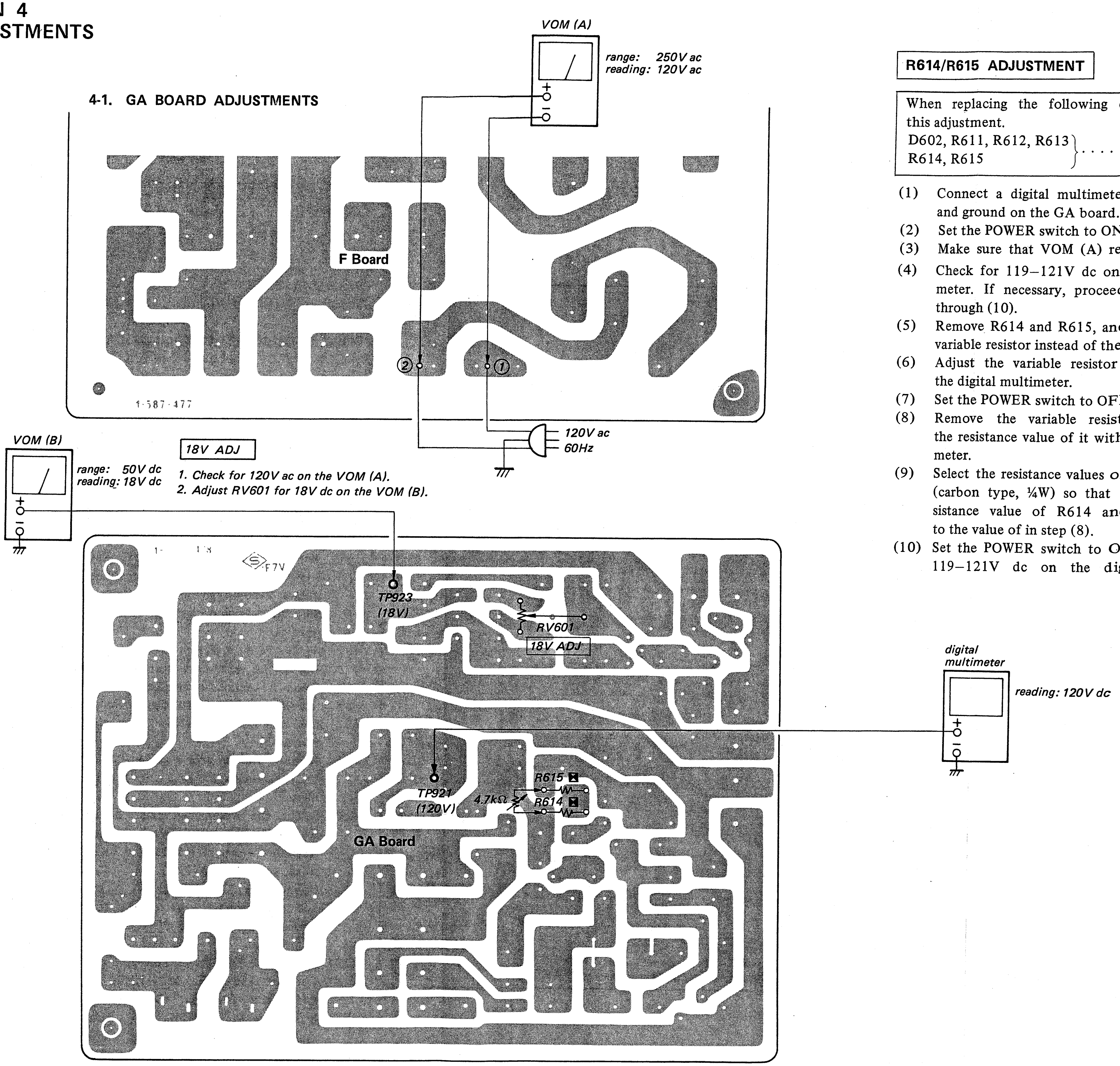
PICTURE control .... 4/5 (80%) turns clockwise
BRIGHT control
COLOR control
HUE control } .... mechanical-mid
VIR-COLOR control
VIR-HUE control
HATCH switch .... NORMAL
TV/VTR switch .... TV
VIR switch .... OFF

(4) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
18V ADJUSTMENT	GA	23
120V ADJUSTMENT R614/R615 ADJUSTMENT		24
H. HOLD	GB	25
R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT		26
VHF AND UHF TUNER AGC 4.5MHz TRAP SIF AFT	A	27
HUE PREF ACC HUE CENT BKG BAT	BA	28

(5) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

4-1. GA BOARD ADJUSTMENTS



18V ADJ

1. Check for 120V ac on the VOM (A).
2. Adjust RV601 for 18V dc on the VOM (B).

R614/R615 ADJUSTMENT

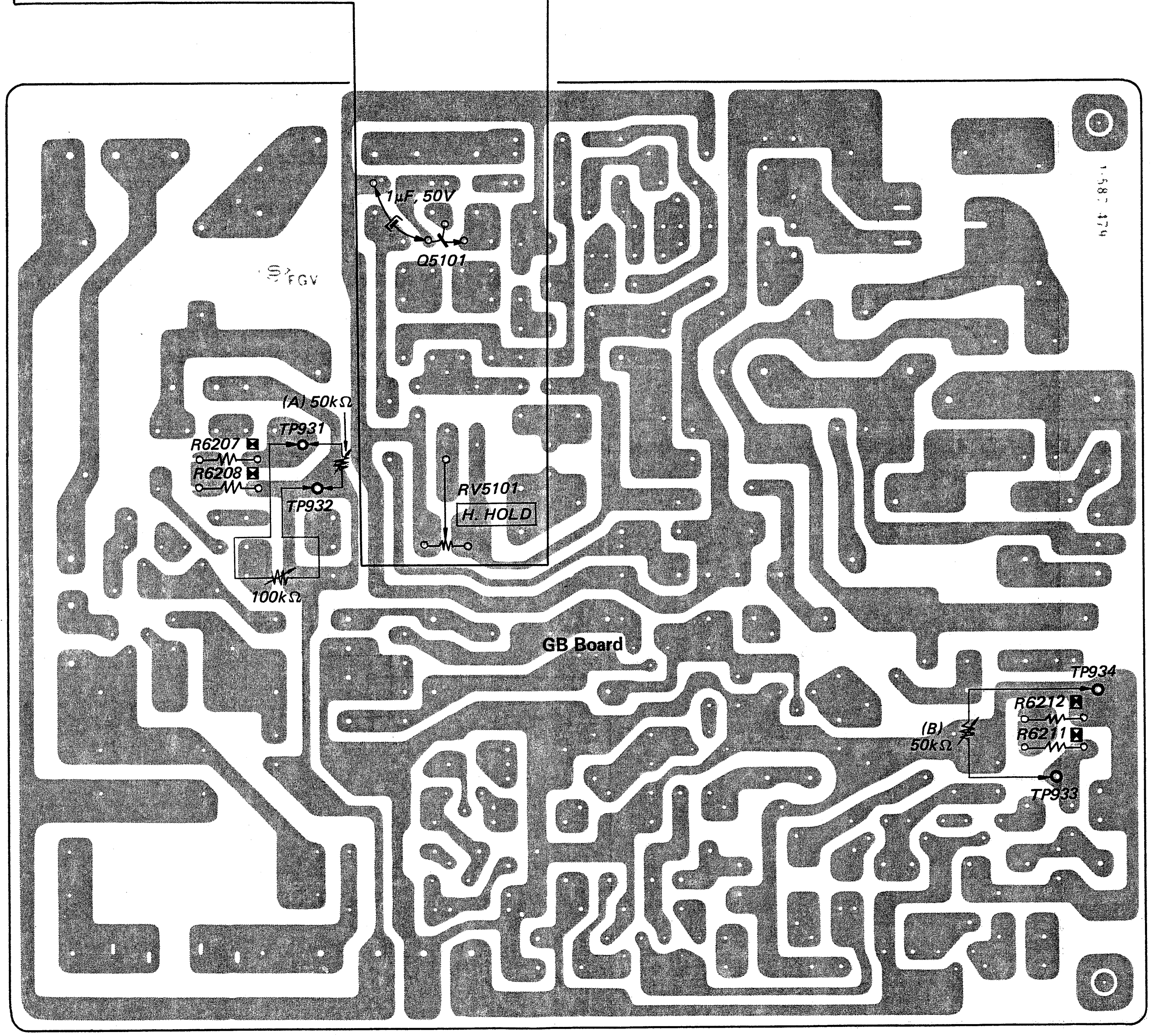
When replacing the following components, make this adjustment.
D602, R611, R612, R613
R614, R615 } .... GA board

(1) Connect a digital multimeter between TP921 and ground on the GA board.
(2) Set the POWER switch to ON.
(3) Make sure that VOM (A) reading is 120V ac.
(4) Check for 119–121V dc on the digital multimeter. If necessary, proceed to the step (5) through (10).
(5) Remove R614 and R615, and connect a 4.7kΩ variable resistor instead of them.
(6) Adjust the variable resistor for 120V dc on the digital multimeter.
(7) Set the POWER switch to OFF.
(8) Remove the variable resistor and measure the resistance value of it with the digital multimeter.
(9) Select the resistance values of R614 and R615 (carbon type, ¼W) so that sum of series resistance value of R614 and R615 is equal to the value of in step (8).
(10) Set the POWER switch to ON, and check for 119–121V dc on the digital multimeter.

4-2. GB BOARD ADJUSTMENTS

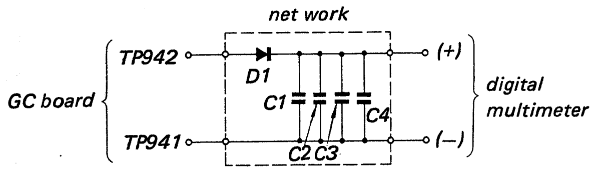
H. HOLD

1. *Connect 1μF/50V electrolytic capacitor during this adjustment as shown.*
2. *Tune in an off-air signal.*
3. *Adjust RV5101 to syncronize the picture.*



R6211/R6212 ADJUSTMENT

(1) Make the floowing network and connect a digital multimeter as shown below.



Diode (D1): SB2B

Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-21)

Digital multimeter: Capable of measuring the voltages of more than 1,000V

(2) Turn the BRIGHT and PICTURE controls fully clockwise.

(3) Feed in the white pattern from color-bar/pattern generater.

(4) Remove R6207 and connect a 50kΩ variable resistor (A) between the test points TP931 and TP932 on the GB board.
Set the variable resistor (A) to maximum position.

(5) Remove R6211 and R6212, and connect a 50kΩ variable resistor (B) between the test points TP933 and TP934 on the GB board. Set the variable resistor (B) to minimum position.

(6) Set the POWER switch to ON.

(7) Adjust the variable resistor (A) for 523–525V dc on the digital multimeter.

(8) Set the variable resistor (B) to the point where the POWER switch (S901) is automatically turned OFF.

(9) Remove the variable resistor (B) and measure the resistance value of it with the digital multimeter.

(10) Select the resistance values of R6211 and R6212 (carbon type, ¼W) so that sum of series resistance value of R6211 and R6212 is equal to the value in step (9).

(11) Connect R6211 and R6212.

(12) Set the variable resistor (A) to maximum position, and set the POWER switch (S901) to ON again.

(13) Short the terminals ⑤ and ⑧ on the F board.

(14) Decrease the value of variable resistor (A) and make sure that the picture begins to become unstable at 519–529V dc on the digital multimeter.

(15) Set POWER switch to OFF. Connect R6207 and remove the variable resistor (A), the network and digital multimeter.

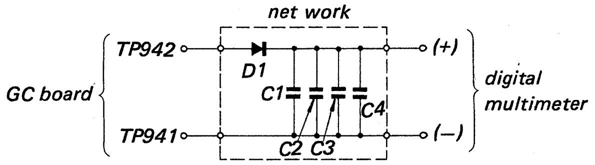
When replacing the following components, adjust R6211/R6212 and R6207/R6208 as described below.
DC851 (HV block)
T801 (FBT-1), T802 (FBT-2)
R807, R808, R810 . . . . HV block
Q6204, Q6205, D6207, R6207, R6208, R6210, R6211, R6212 . . . . GB board
C802, C803, C804, C805 . . . . GC board

R6207/R6208 ADJUSTMENT

When replacing the following components, make this adjustment.

R805, R806, R809 . . . . HV block
Q6201, Q6202, Q6203, Q6214, D6201, R6206, R6237. . . . . GB board

(1) Make the following network and connect a digital multimeter as shown below.



Diode (D1): SB2B

Capacitors (C1–C4): 16,000pF/1.5kV polyethylene (1-129-924-21)

Digital multimeter: Capable of measuring the voltage of more than 1,000V

(2) Turn the BRIGHT and PICTURE controls fully clockwise.

(3) Feed in the white pattern from color-bar/pattern generator.

(4) Remove R6207 and R6208, and connect a 100kΩ variable resistor between test points TP931 and TP932 on the GB board.
Set the variable resistor to maximum position.

(5) Set the POWER switch to ON, and adjust the variable resistor for 483–485V dc on the digital multimeter.

(6) Set the POWER switch to OFF.

(7) Remove the variable resistor and measure the resistance value of it with the digital multimeter.

(8) Select the resistance value of R6207 and R6208 (carbon type, ¼W) so that sum of series resistance value of R6207 and R6208 is equal to the value in step (7).

(9) Connect the resistor R6207 and R6208.

(10) Set the POWER switch to ON and make sure that the digital multimeter indicates 479–489V dc.

(11) Set the POWER switch to OFF.
Remove the network and the digital multimeter.

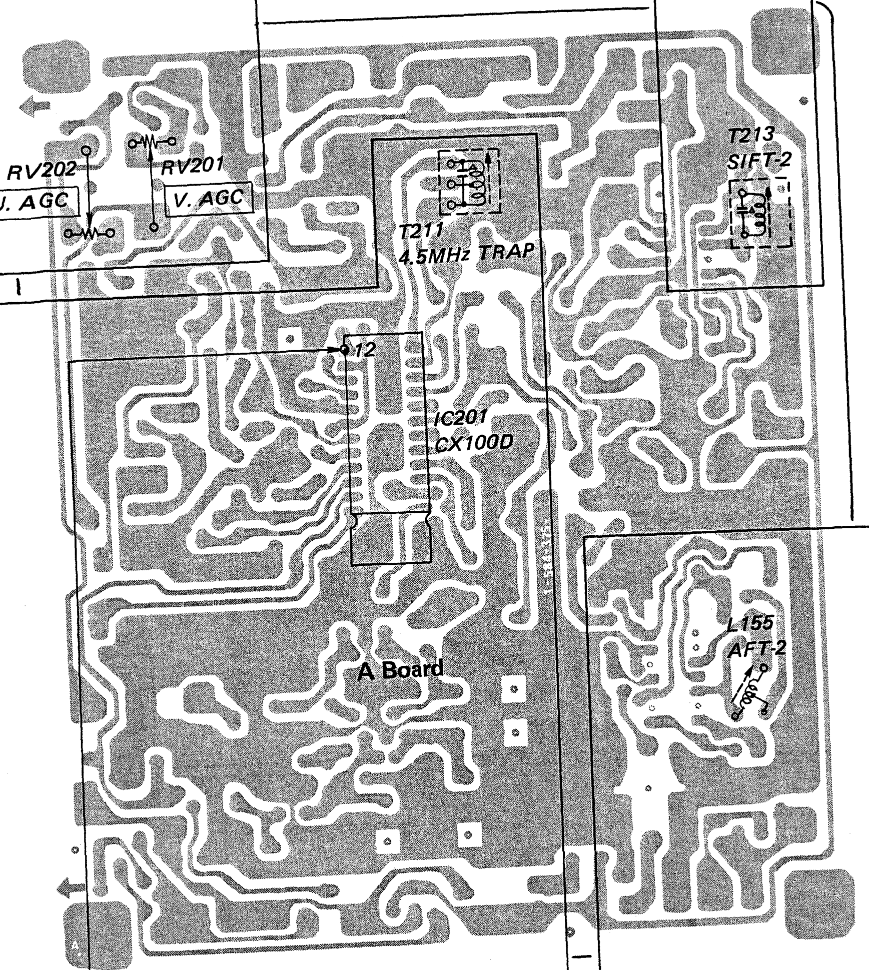
4-3. A BOARD ADJUSTMENTS

VHF and UHF TUNER AGC

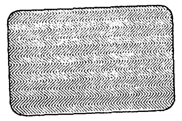
1. *Tune in an off-air signal.*
2. *Adjust RV201 and RV202 so that snow and cross-modulation disapper from the picture.*

SIF

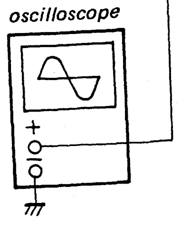
1. *Tune in an off-air signal.*
2. *Adjust T213 for maximum clear-sound.*



RV202
U. AGC
RV201
V. AGC
T211
4.5MHz TRAP
T213
SIFT-2
12
IC201
CX100D
A Board
L155
AFT-2



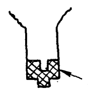
920kHz
beat



oscilloscope
+

4.5MHz TRAP

1. *Tune in an off-air signal.*
2. *Set the AFT (S9302A) and the PRESET (S9302B) to OFF.*
3. *Push the TUNING ▸ (S9301A) button to obtain 4.5MHz beat on the oscilloscope.*
4. *Adjust T211 for minimum 4.5MHz beat.*



Minimize 4.5MHz beat.

AFT

1. *Tune in an off-air signal.*
2. *Set the AFT (S9302A) and the PRESET (S9302B) to OFF.*
3. *Push the TUNING ▸ (S9301A) button to obtain 920kHz beat.*
4. *Set the AFT switch to ON. The 920kHz beat will appear or "no color" will occur, if the adjustment is improper.*
5. *Set L155 to the point where the 920kHz beat just disappears or normal color is obtainable.*

4-4. BA BOARD ADJUSTMENTS

HUE PREF

1. *Tune in an off-air signal.*
2. *Set AUTO switch to OFF.*
3. *Set VIR switch to ON, and make sure that VIR indicator lamp is turned ON.*
4. *Adjust RV401 for best skin tone.*

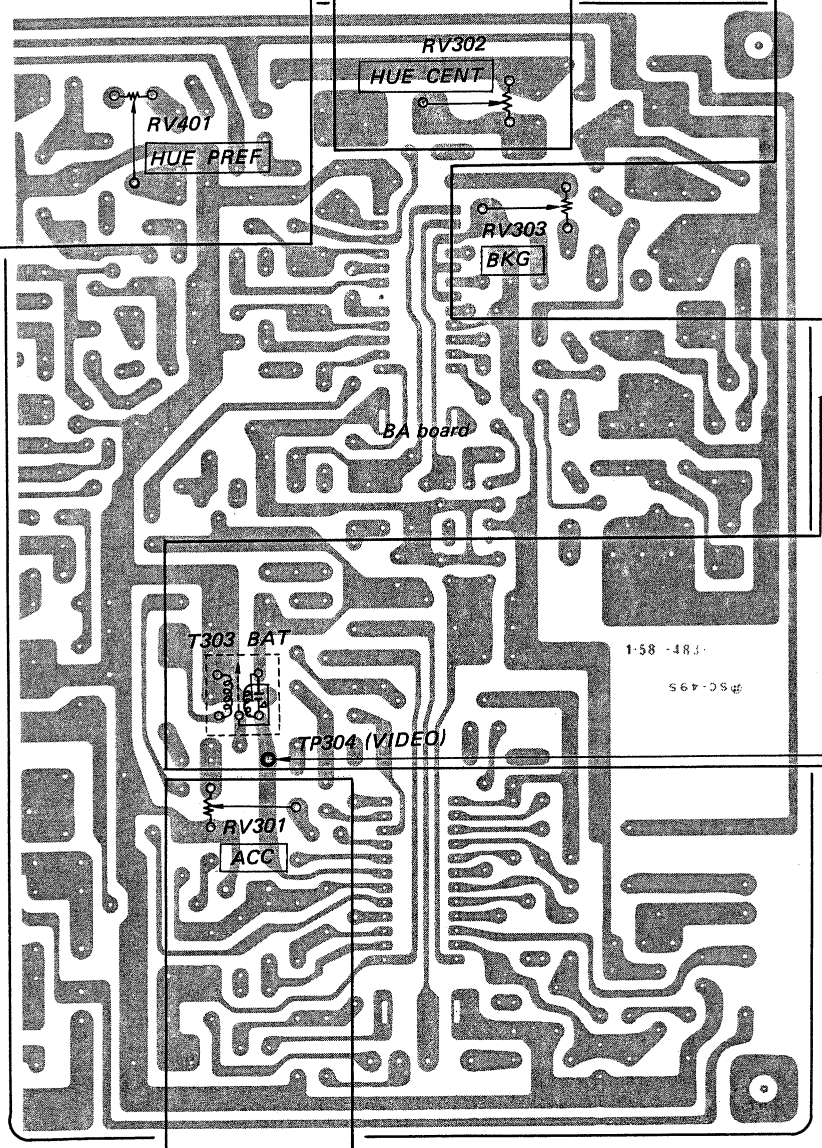
HUE CENT

1. *Tune in an off-air signal.*
2. *Set AUTO switch to OFF.*
3. *Adjust RV302 for correct skin tones.*

BKG

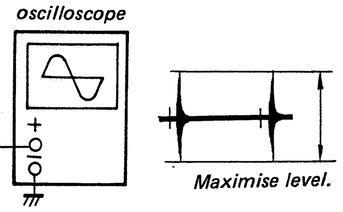
When replacing adjustable resistor RV303,

1. *Set the adjustable resistor to mechanical-mid position.*
2. *Perform white balance adjustment on Page 22.*


RV302
HUE CENT
RV401
HUE PREF
RV303
BKG
BA board
T303 BAT
TP304 (VIDEO)
RV301
ACC

BAT

1. *Feed in a color-bar signal from the colorbar/pattern generator.*
2. *Set AUTO switch to ON.*
3. *Adjust T303 for maximum level.*


oscilloscope
+
Maximise level.

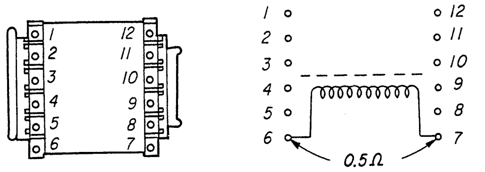
ACC

1. *Tune in a strong off-air signal.*
2. *Set AUTO switch to ON.*
3. *Adjust RV301 for suitable color intensity.*
4. *Make sure that all channels are the same color intensity.*

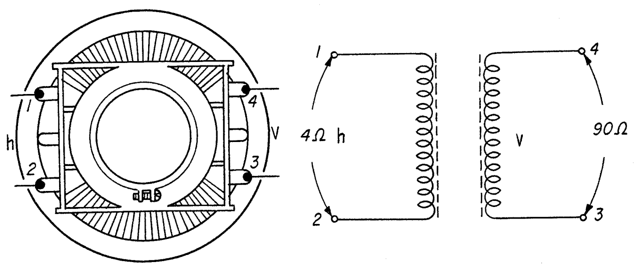
SECTION 5
DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS

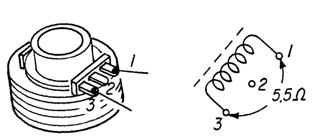
L801
HCA


1
2
3
4
5
6
12
11
10
9
8
7
0.5Ω

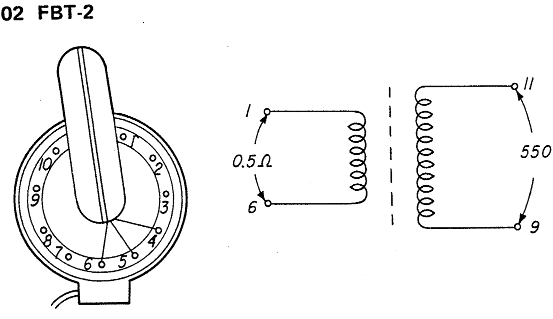
L5502 DY <R>
L5503 DY <G>
L5504 DY <B>


h
V
1
2
3
4
4Ω h
90Ω

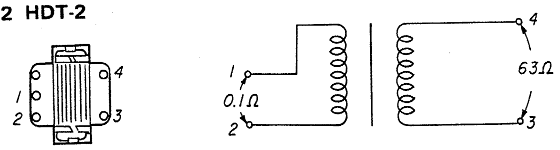
L5507 NECK ASS'Y <G>
L5508 NECK ASS'Y <R>
L5509 NECK ASS'Y <B>



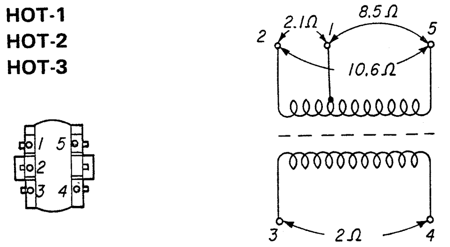
T801 FBT-1
T802 FBT-2


1
6
0.5Ω
11
9
550Ω

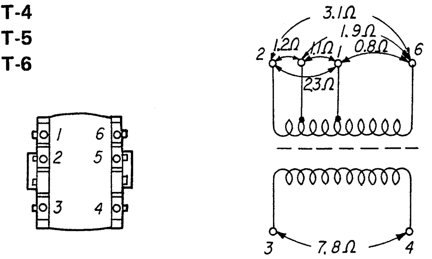
T5101 HDT-1
T5102 HDT-2


1
2
3
4
0.1Ω
63Ω

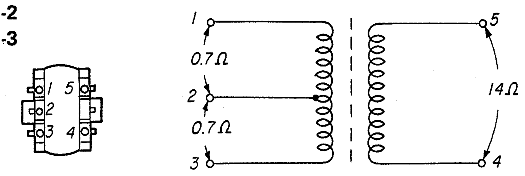
T5301 HOT-1
T5304 HOT-2
T5307 HOT-3


2
2.1Ω
8.5Ω
5
10.6Ω
3
2Ω
4

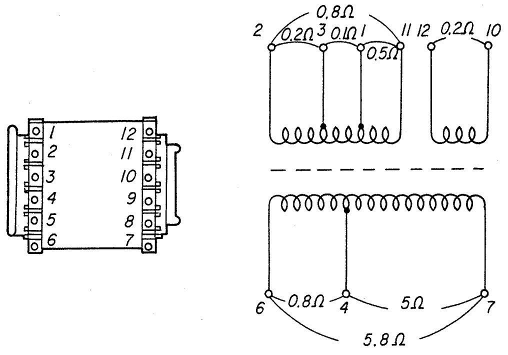
T5302 HOT-4
T5305 HOT-5
T5308 HOT-6


3.1Ω
1.9Ω
1.2Ω
1.1Ω
0.8Ω
2.3Ω
2
6
3
7.8Ω
4

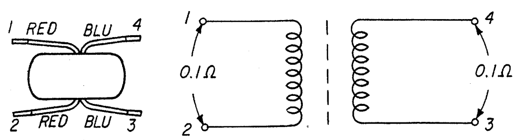
T5303 LOT-1
T5306 LOT-2
T5309 LOT-3


1
0.7Ω
2
0.7Ω
3
5
14Ω
4

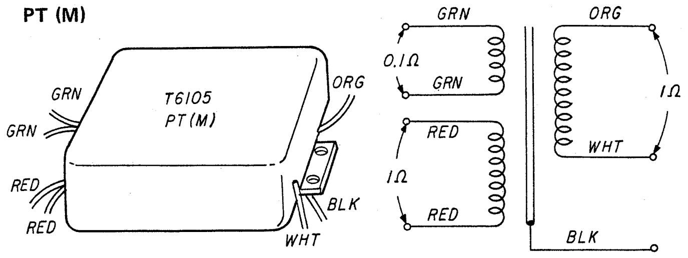
T5310
LOT-4


0.8Ω
2
0.2Ω
3
0.1Ω
1
0.5Ω
11
12
0.2Ω
10
6
0.8Ω
4
5Ω
7
5.8Ω

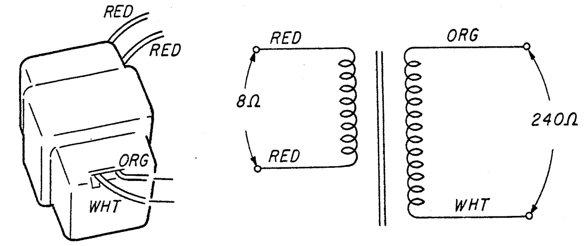
T6101 LFT-1
T6102 LFT-2
T6103 LFT-3
T6104 LFT-4


1 RED BLU 4
2 RED BLU 3
0.1Ω
0.1Ω

T6105
PT (M)


T6105
PT(M)
GRN
ORG
RED
BLK
WHT
0.1Ω
1Ω
1Ω

T6106
PT (S)

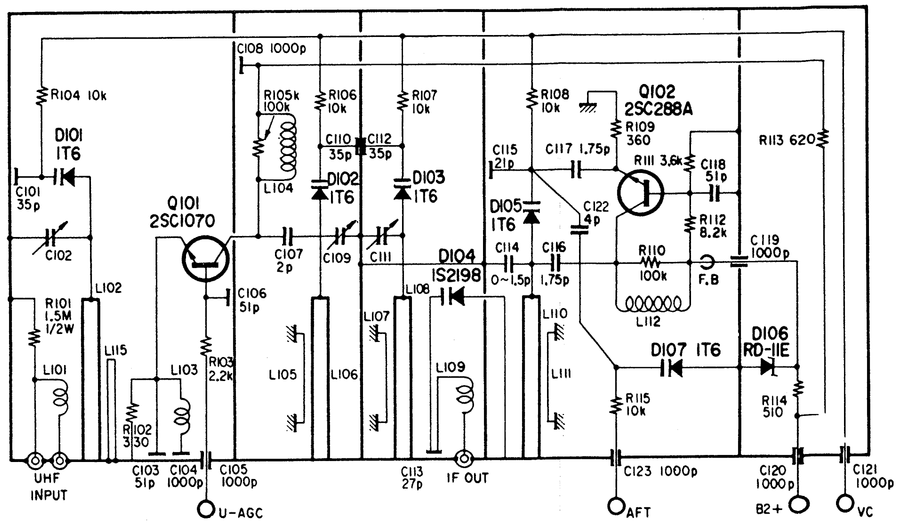

RED
ORG
WHT
8Ω
240Ω

- DC resistance measurements shown with coils and transformers disconnected from circuit.

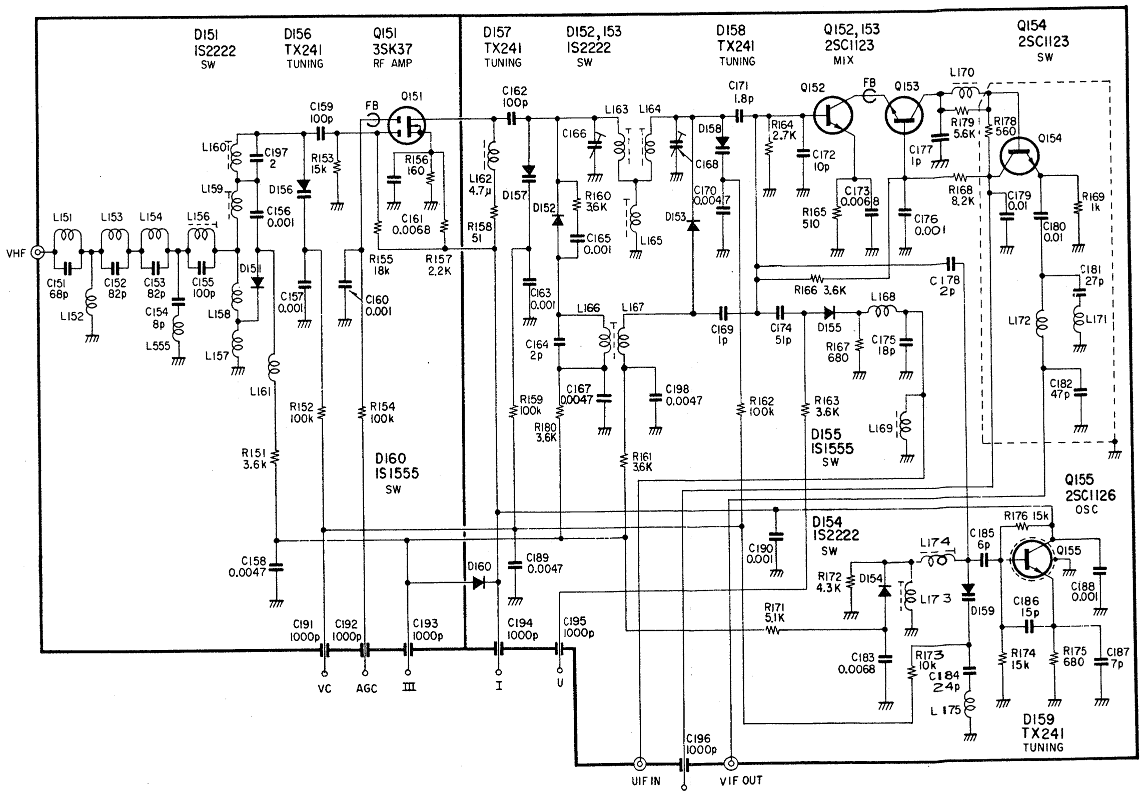
5-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

– UHF Tuner –
(BT-842)

Note: 1. Tuner reference numbers are not included in the Electrical Parts List (Pages 109–123 and 127).


Q101
2SC1070
Q102
2SC288A
D101 IT6
D102 IT6
D103 IT6
D104 IS2198
D105 IT6
D106 RD-IIE
D107 IT6
UHF INPUT
U-AGC
IF OUT
AFT
B2+
VC

– VHF Tuner –
(BT-802)


D151 IS2222 SW
D156 TX241 TUNING
Q151 3SK37 RF AMP
D157 TX241 TUNING
D152,153 IS2222 SW
D158 TX241 TUNING
Q152,153 2SC1123 MIX
Q154 2SC1123 SW
Q155 2SC1126 OSC
D154 IS2222 SW
D155 IS1555 SW
D159 TX241 TUNING
D160 IS1555 SW
VHF
VC
AGC
III
I
U
UIF IN
B+
VIF OUT

5-3. MOUNTING AND SCHEMATIC DIAGRAMS

Note: All mounting diagrams shown on the conductor side.

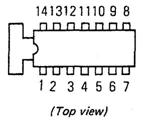
[VIF, AFT SIF, SND, DET] **A** **A**

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

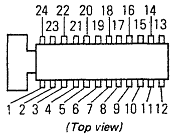
MOUNTING DIAGRAM

— A Board —

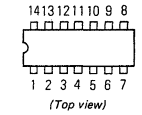
CX095C


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

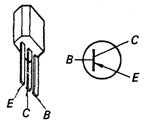
CX100D


24 22 20 18 16 14
23 21 19 17 15 13
1 2 3 4 5 6 7 8 9 10 11 12
(Top view)

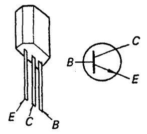
TA7070P


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

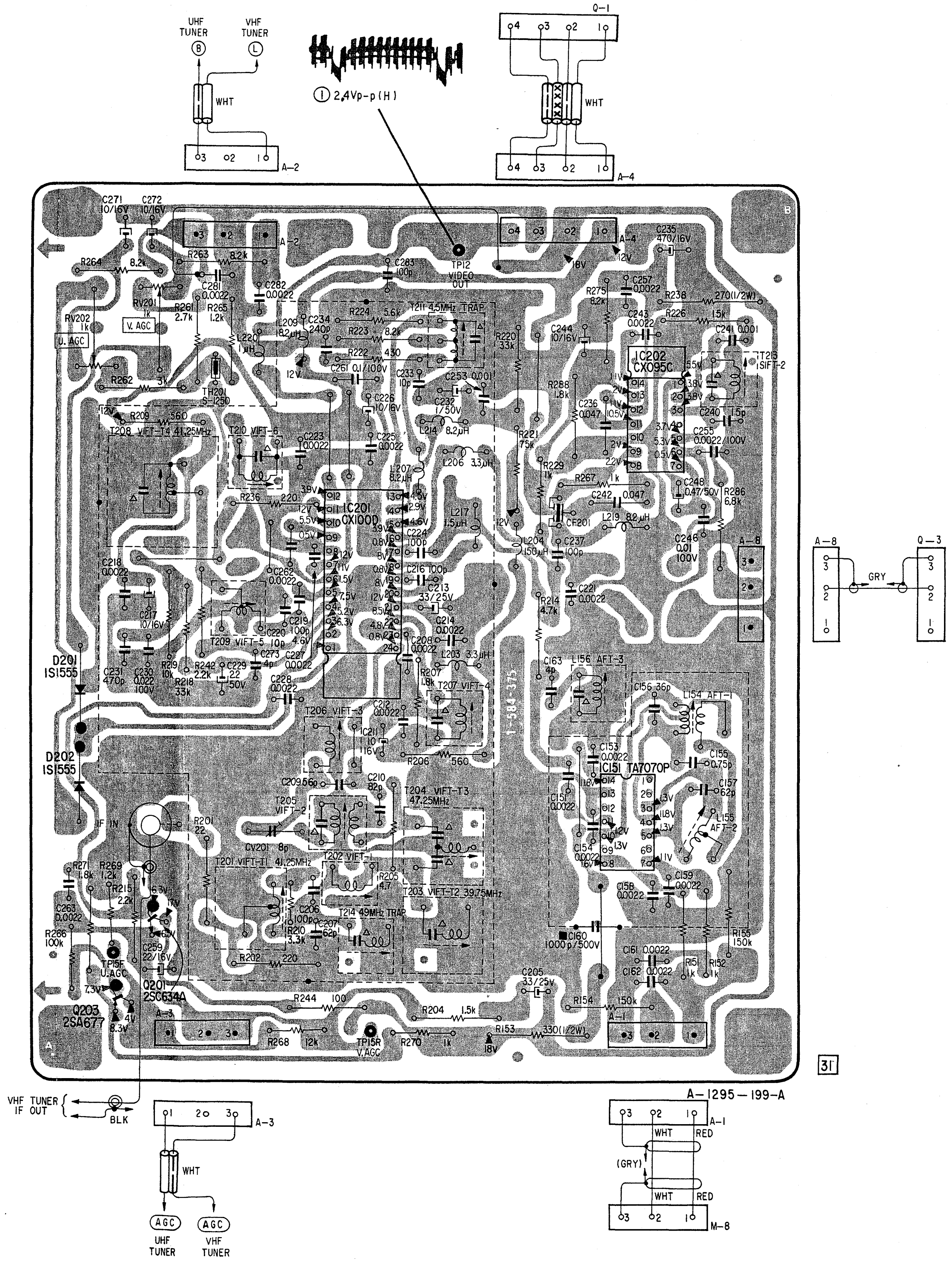
2SA677



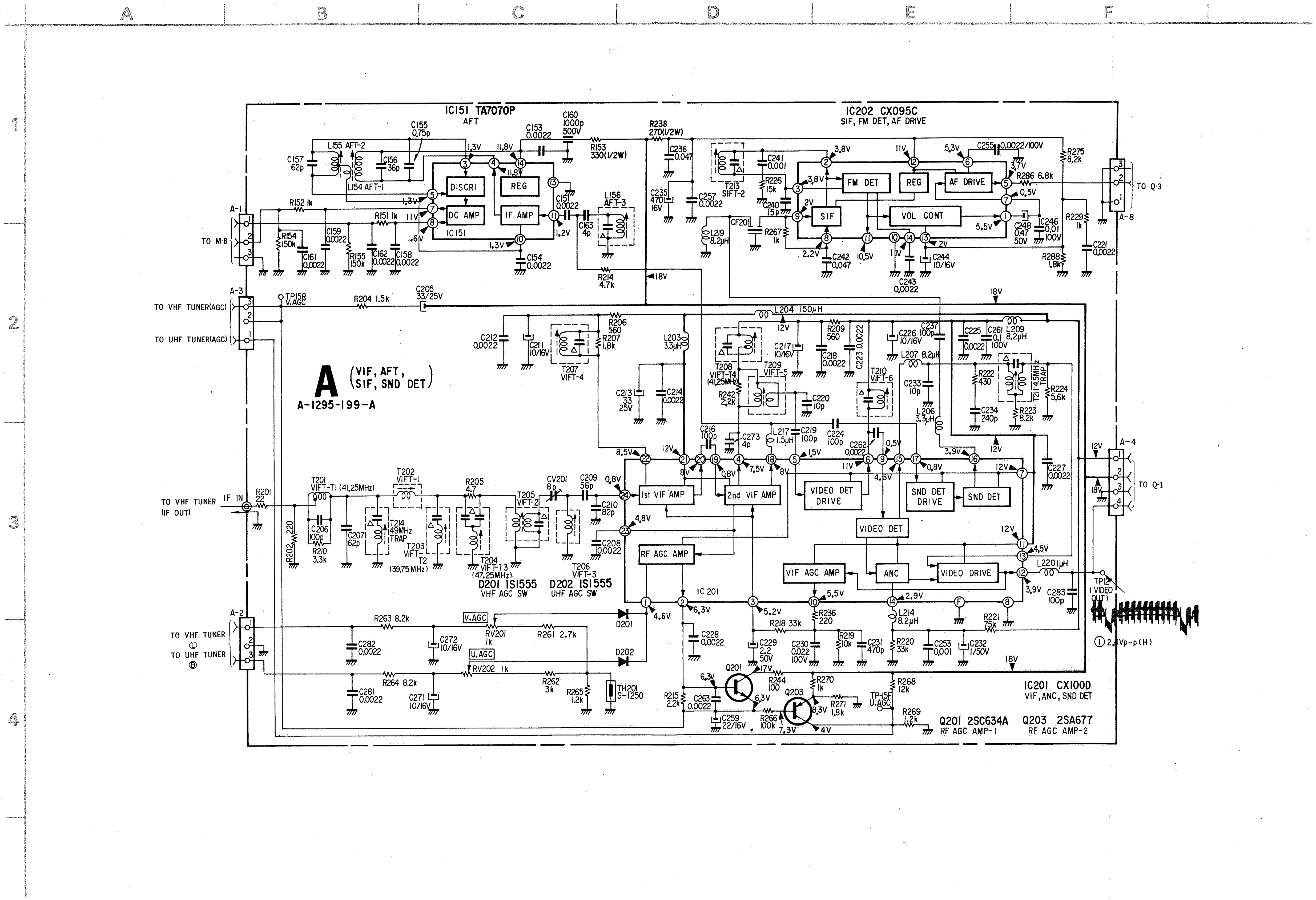
2SC634A

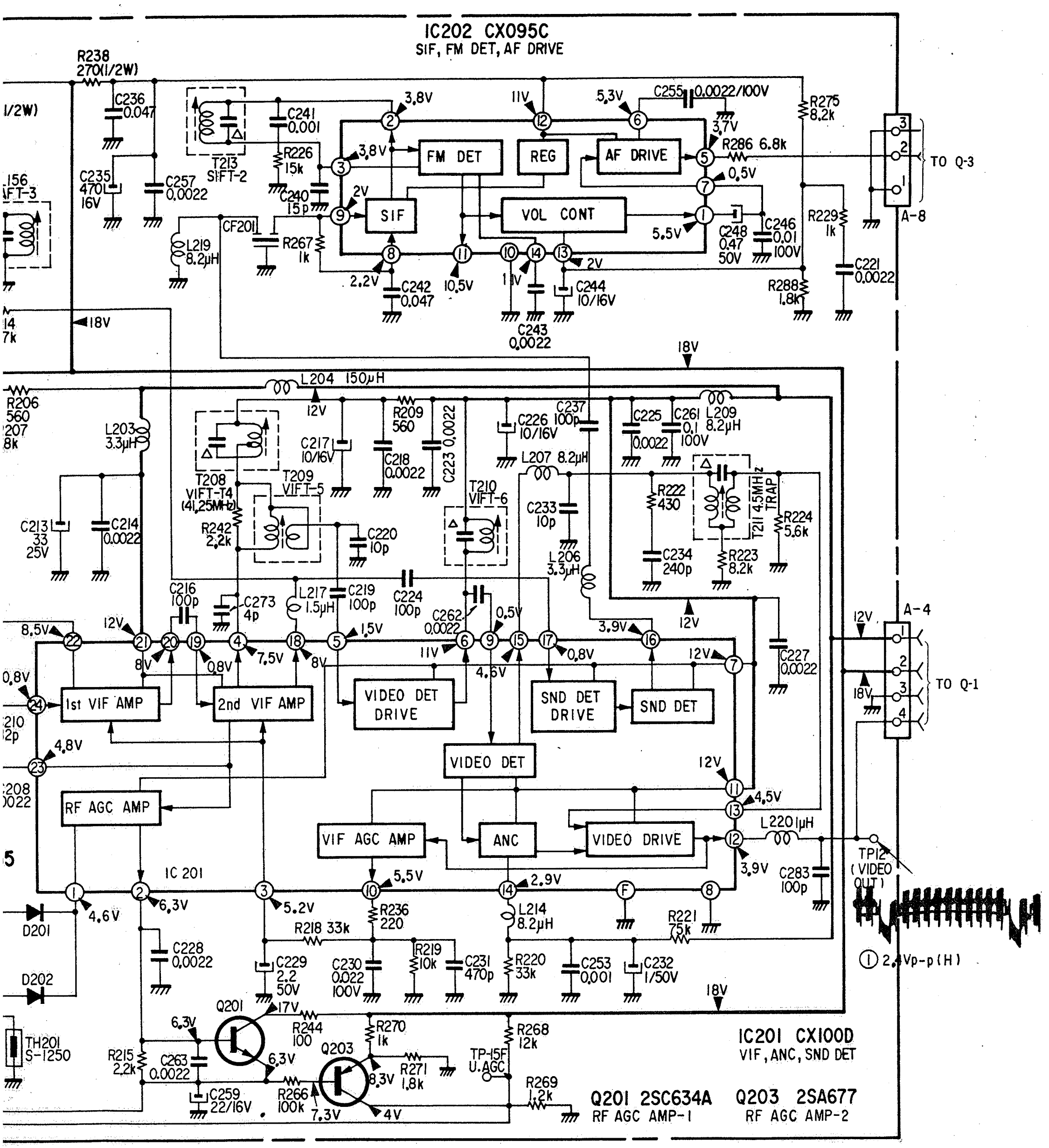


IC, Q	D	ADJ
		RV201 RV202
IC202		
IC201		
	201	
IC151	202	
201		
203		
IC, Q	D	ADJ

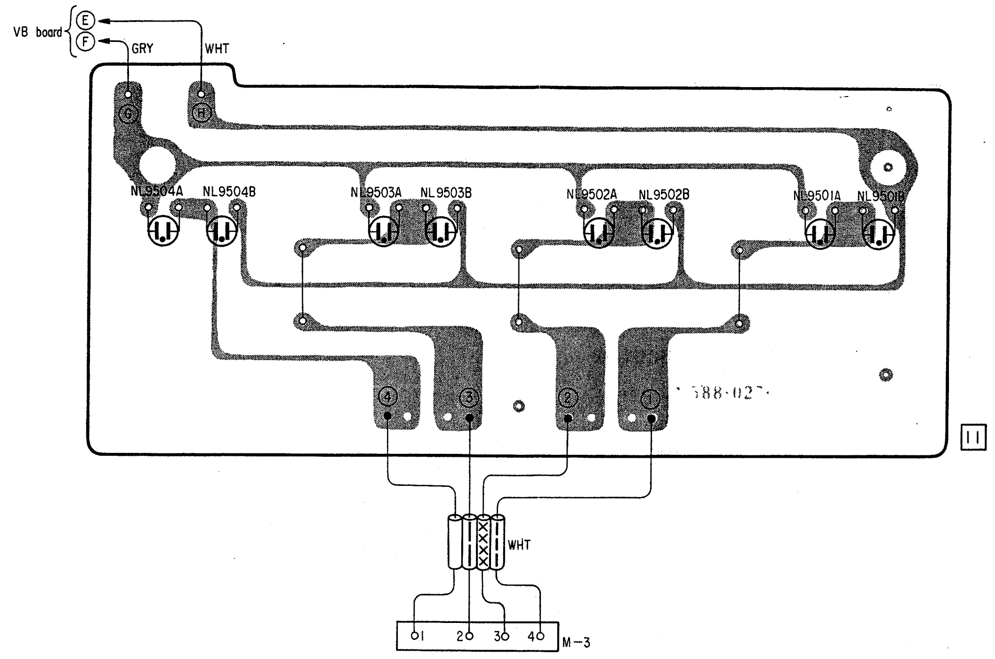

UHF TUNER
VHF TUNER
WHT
A-2
① 2.4Vp-p (H)
Q-1
WHT
A-4
C271 10/16V
C272 10/16V
R264
R263 8.2k
C281 0.0022
C282 0.0022
RV201 V. AGC
RV202 1k U. AGC
R261 2.7k
R265 1.2k
L220
TH201
R262
TP12 VIDEO OUT
C283 100p
R224 5.6k
T211 4.5MHz TRAP
R223 8.2k
R222
C234 240p
L209 8.2μH
C261 0.1/100V
C235 470/16V
R275 8.2k
C257 0.0022
R238 270(1/2W)
R226 15k
C243 0.0022
C241 0.001
IC202 CX095C
T213 SIFT-2
R220 33k
C244 10/16V
R288 1.8k
C236 0.047
C240 15p
C258 0.0022/100V
R221 75k
T208 VIFT-8 41.25MHz
R203 560
T210 VIFT-6
C223 0.0022
C225 0.0022
C226 10/16V
C232 1/50V
L214 8.2μH
L206 3.3μH
L207 8.2μH
R229
R267 1k
C242 0.047
L219 8.2μH
C248 0.47/50V
R286 6.8k
IC201 CX100D
R236 220
L217 1.5μH
L204 150μH
C237 100p
C246 0.01 100V
A-8
C218 0.0022
C217 10/16V
C262 0.0022
C216 100p
C213 33/25V
C214 0.0022
C221 0.0022
R214 4.7k
C231 470p
C230 0.022 100V
R242 2.2k
C229 22/50V
R218 33k
C273 0.0022
C227 0.0022
C228 0.0022
T209 VIFT-5
L203 3.3μH
T207 VIFT-4
C163
L156 AFT-3
C156 36p
L154 AFT-1
D201 1S1555
D202 1S1555
T206 VIFT-3
C212 0.0022
R206 560
C153 0.0022
IC151 TA7070P
C155 0.75p
C157 62p
C209 56p
C210 82p
T205 VIFT-2
T204 VIFT-T3 47.25MHz
C151 0.0022
L153 AFT-2
IF IN
R201 22
CV201 8p
T201 VIFT-1 41.25MHz
T202 VIFT
T203 VIFT-12 39.75MHz
C154 0.0022
C158 0.0022
C159 0.0022
R271 1.8k
R269 1.2k
R215 22k
C263 0.0022
R266 100k
TP12F U.AGC
C259 22/16V
T214 49MHz TRAP
R205
R220 3.3k
R202 220
C160 1000p/500V
C161 0.0022
C162 0.0022
R151 1k
R152 1k
R155 150k
Q203 2SA677
Q201 2SC634A
R244 100
C205 33/25V
R204 1.5k
R154 150k
A-3
R268 12k
TP15R V.AGC
R270 1k
R153 330(1/2W)
A-1
1-584-375
31
A-1295-199-A
A-8
Q-3
GRY
VHF TUNER IF OUT
BLK
A-3
WHT
AGC
AGC
UHF TUNER
VHF TUNER
WHT
RED
(GRY)
WHT
RED
M-8

SCHEMATIC DIAGRAM
— A Board —

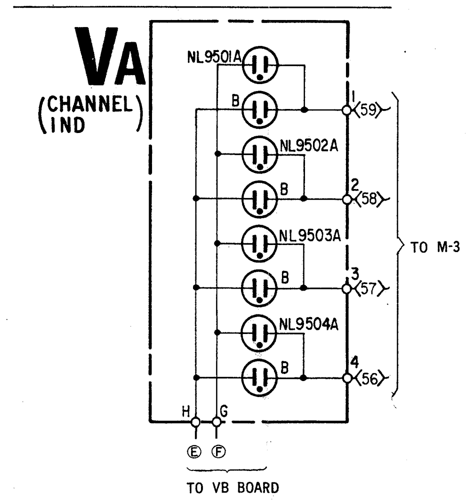

A
B
C
D
E
F
1
2
3
4
IC151 TA7070P
AFT
IC202 CX095C
SIF, FM DET, AF DRIVE
DISCRI
REG
DC AMP
IF AMP
FM DET
REG
AF DRIVE
SIF
VOL CONT
TO M-8
A-1
TO Q-3
A-8
TO VHF TUNER(AGC)
TO UHF TUNER(AGC)
A-3
TP158 V.AGC
A (VIF, AFT, SIF, SND DET)
A-1295-199-A
TO VHF TUNER (IF OUT)
IF IN
TO VHF TUNER Ⓛ
TO UHF TUNER Ⓑ
A-2
1st VIF AMP
2nd VIF AMP
VIDEO DET DRIVE
SND DET DRIVE
SND DET
VIDEO DET
RF AGC AMP
VIF AGC AMP
ANC
VIDEO DRIVE
IC 201
A-4
TO Q-1
TP12 (VIDEO OUT)
① 2.4Vp-p(H)
D201 1S1555 VHF AGC SW
D202 1S1555 UHF AGC SW
V.AGC
U.AGC
RV201 1k
RV202 1k
TH201 S-1250
IC201 CX100D VIF, ANC, SND DET
Q201 2SC634A RF AGC AMP-1
Q203 2SA677 RF AGC AMP-2
TP-15F U-AGC
T201 VIFT-T1 (41.25MHz)
T202 VIFT-1
T214 49MHz TRAP
T203 VIFT-2
T204 VIFT-T3 (47.25MHz)
T205 VIFT-2
T206 VIFT-3
T207 VIFT-4
T208 VIFT-T4 (41.25MHz)
T209 VIFT-5
T210 VIFT-6
T211 4.5MHz TRAP
T213 SIFT-2
L154 AFT-1
L155 AFT-2
L156 AFT-3
L204 150μH
L207 8.2μH
L209 8.2μH
L203 3.3μH
L206 3.3μH
L219 8.2μH
L217 1.5μH
L220 1μH
L214 8.2μH
CF201
CV201 8p
R238 270(1/2W)
R153 330(1/2W)
R204 1.5k
C205 33/25V
18V
12V


IC202 CX095C
SIF, FM DET, AF DRIVE
R238 270(1/2W)
C236 0.047
C235 470 16V
C257 0.0022
T213 SIFT-2
C241 0.001
R226 15k
C240 15p
CF201
L219 8.2μH
R267 1k
FM DET
REG
AF DRIVE
SIF
VOL CONT
C255 0.0022/100V
R275 8.2k
R286 6.8k
C246 0.01 100V
C248 0.47 50V
R229 1k
C221 0.0022
R288 1.8k
C242 0.047
C244 10/16V
C243 0.0022
TO Q-3
A-8
18V
L204 150μH
L203 3.3μH
R206 560
C213 33 25V
C214 0.0022
T208 VIFT-T4 (41.25MHz)
T209 VIFT-5
R242 2.2k
C217 10/16V
R209 560
C218 0.0022
C223 0.0022
T210 VIFT-6
C226 10/16V
C237 100p
C225 0.0022
C261 0.1 100V
L209 8.2μH
L207 8.2μH
C233 10p
L206 3.3μH
R222 430
C234 240p
T211 4.5MHz TRAP
R224 5.6k
R223 8.2k
C220 10p
C216 100p
C273 4p
L217 1.5μH
C219 100p
C224 100p
C262 0.0022
C227 0.0022
A-4
TO Q-1
1st VIF AMP
2nd VIF AMP
VIDEO DET DRIVE
SND DET DRIVE
SND DET
VIDEO DET
RF AGC AMP
VIF AGC AMP
ANC
VIDEO DRIVE
IC 201
L220 1μH
TP12 (VIDEO OUT)
C283 100p
① 2.4Vp-p(H)
D201
D202
C228 0.0022
R218 33k
R236 220
L214 8.2μH
R221 75k
C229 2.2 50V
C230 0.022 100V
R219 10k
C231 470p
R220 33k
C253 0.001
C232 1/50V
Q201
Q203
R244 100
R270 1k
R271 1.8k
R268 12k
TP-15F U.AGC
R269 1.2k
R215 2.2k
C263 0.0022
C259 22/16V
R266 100k
TH201 S-1250
IC201 CX100D
VIF, ANC, SND DET
Q201 2SC634A RF AGC AMP-1
Q203 2SA677 RF AGC AMP-2

MOUNTING DIAGRAM
– VA Board –


VB board
Ⓔ
Ⓕ
GRY
WHT
NL9504A
NL9504B
NL9503A
NL9503B
NL9502A
NL9502B
NL9501A
NL9501B
M-3

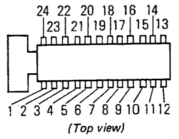
SCHEMATIC DIAGRAM
– VA Board –


VA
(CHANNEL IND)
NL9501A
NL9502A
NL9503A
NL9504A
B
(59)
(58)
(57)
(56)
TO M-3
H
G
Ⓔ Ⓕ
TO VB BOARD

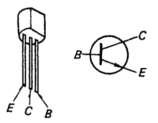
BA

MOUNTING DIAGRAM
– BA Board –

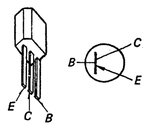
CX172
CX173


24 22 20 18 16 14
23 21 19 17 15 13
1 2 3 4 5 6 7 8 9 10 11 12
(Top view)

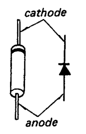
2SC1384



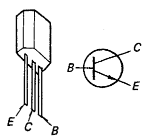
2SA678



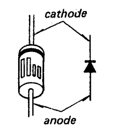
1S1555


cathode
anode

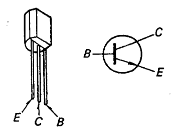
2SC403C



SIB01-02

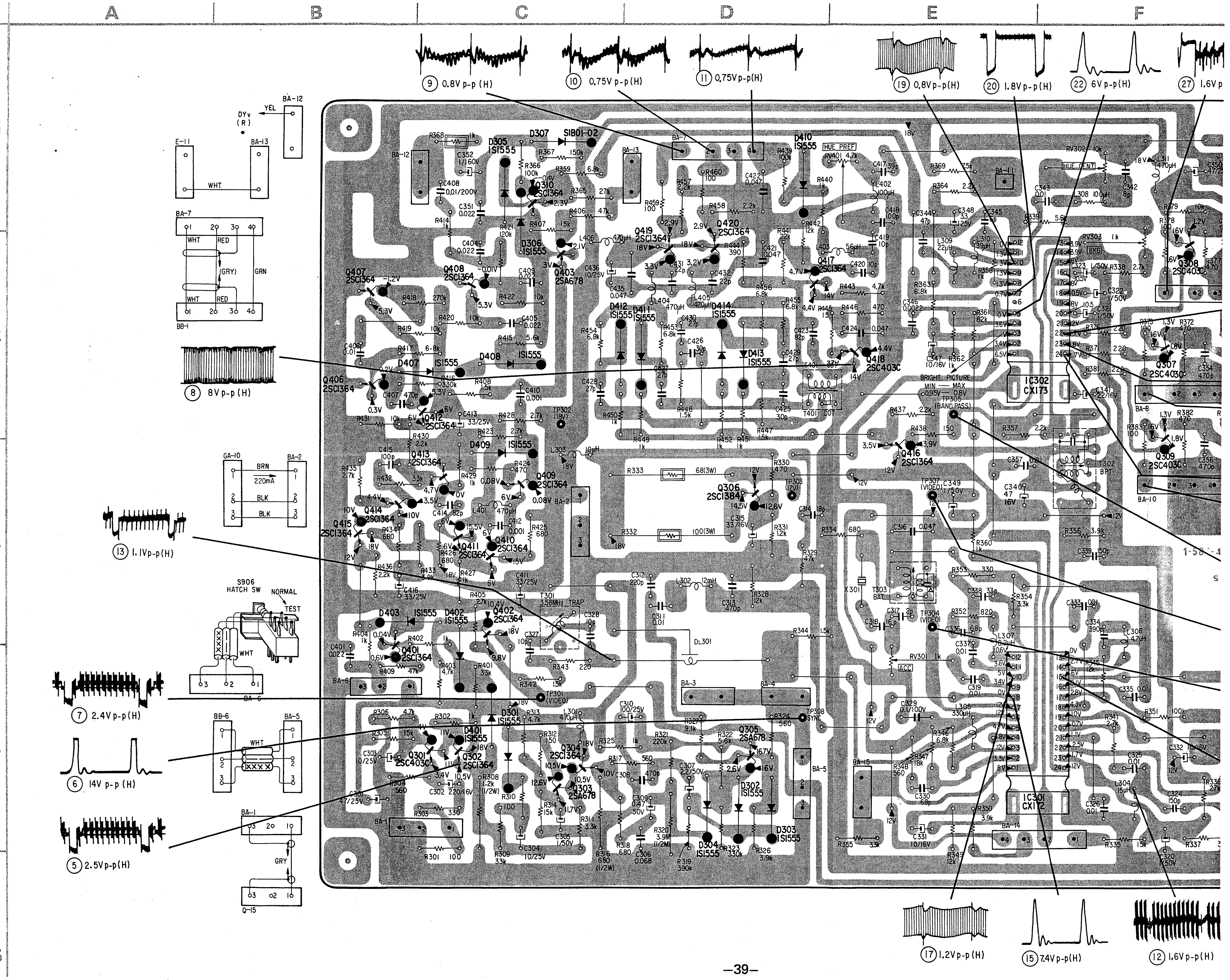

cathode
anode

2SC1364



VIDEO AMP, SYNC SEP
CW AMP, CHROMA
Y-DEMOD
HATCH-OSC/AMP

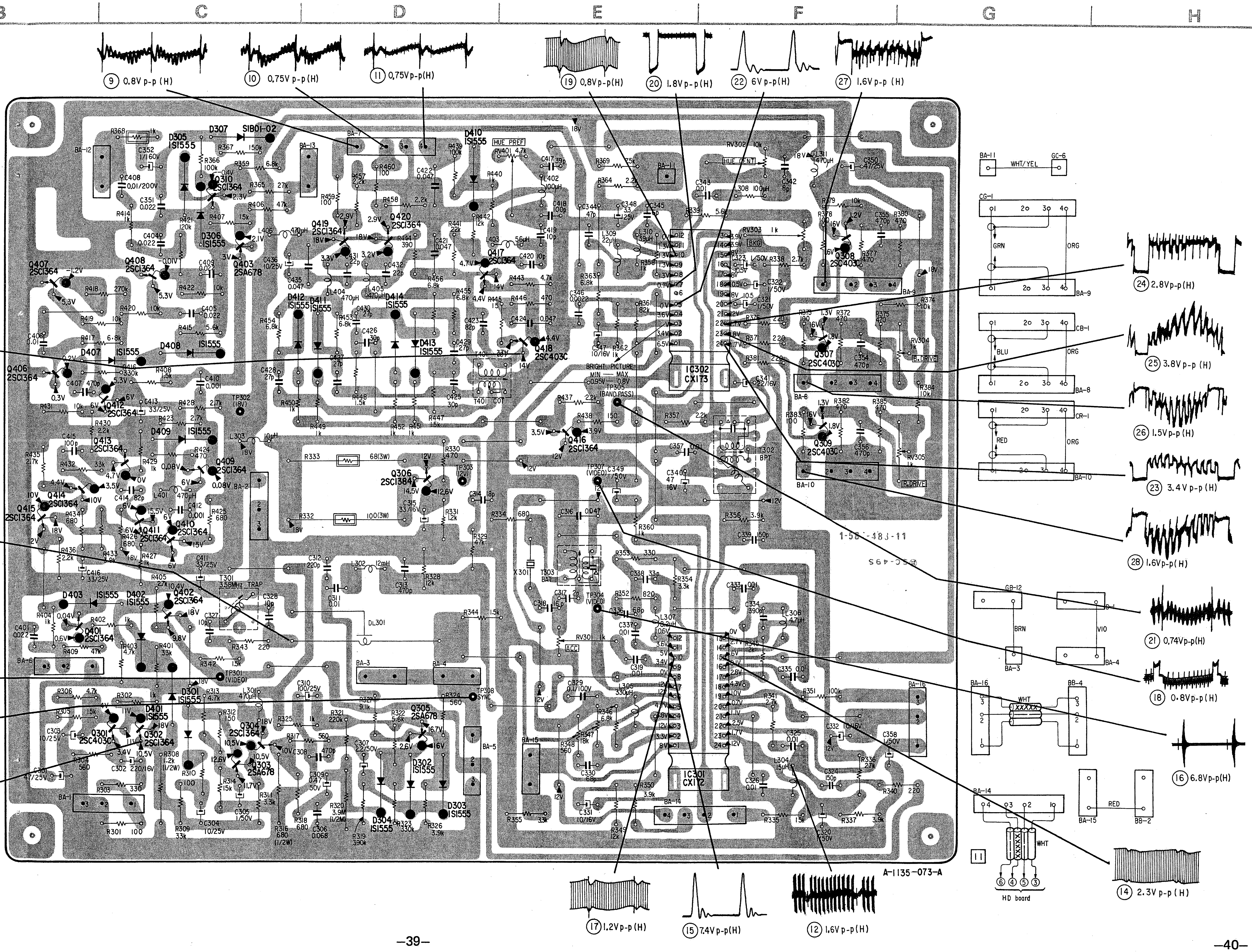
BA


A
B
C
D
E
F
1
2
3
4
5
⑨ 0.8V p-p (H)
⑩ 0.75V p-p (H)
⑪ 0.75V p-p (H)
⑲ 0.8V p-p (H)
⑳ 1.8V p-p (H)
㉒ 6V p-p (H)
㉗ 1.6V p
⑧ 8V p-p (H)
⑬ 1.1V p-p (H)
⑦ 2.4V p-p (H)
⑥ 14V p-p (H)
⑤ 2.5V p-p (H)
⑰ 1.2V p-p (H)
⑮ 7.4V p-p (H)
⑫ 1.6V p-p (H)
DYv (R)
YEL
BA-12
E-11
BA-13
WHT
BA-7
BB-1
RED
GRN
(GRY)
GA-10
BA-2
BRN
220mA
BLK
S906 HATCH SW
NORMAL
TEST
BA-6
BB-6
BA-5
BA-1
GRY
Q-15
IC301 CX172
IC302 CX173
Q306 2SC1384
TP301 (VIDEO)
TP302
TP304 (VIDEO)
TP305 (BAND PASS)
TP307 (VIDEO)
TP308 SYNC
BRIGHT MIN MAX PICTURE
HUE PREF
HUE CENT
RV301
RV302
RV303
RV401
T301 3.58MHz TRAP
DL301
X301
BA-3
BA-4
BA-8
BA-10
BA-11
BA-14
BA-15

VIDEO AMP, SYNC SEP
CW AMP, CHROMA
Y-DEMOD
HATCH-OSC/AMP

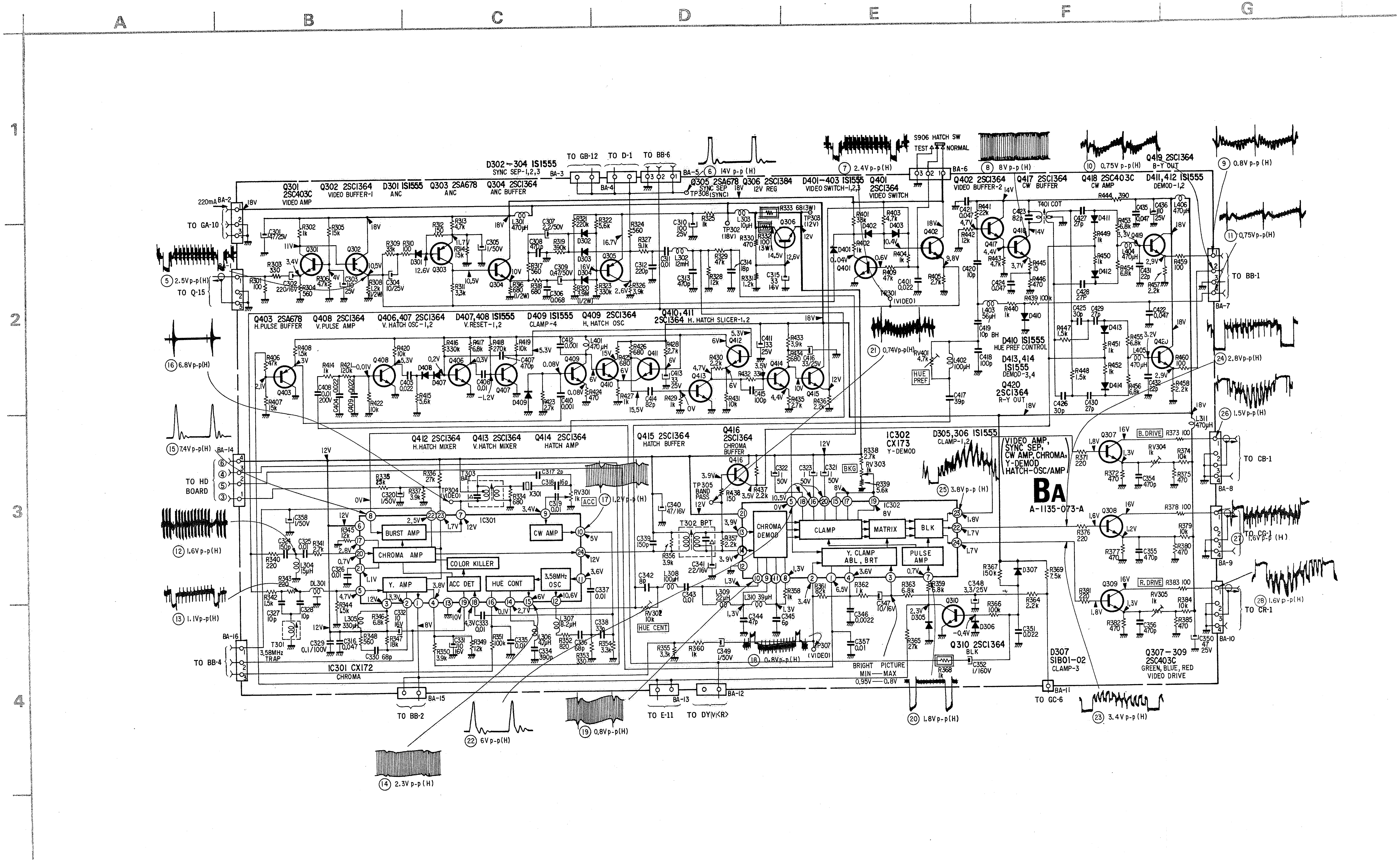
BA **BA**

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.


B
C
D
E
F
G
H
I
⑨ 0.8V p-p (H)
⑩ 0.75V p-p (H)
⑪ 0.75V p-p (H)
⑲ 0.8V p-p (H)
⑳ 1.8V p-p (H)
㉒ 6V p-p (H)
㉗ 1.6V p-p (H)
㉔ 2.8V p-p (H)
㉕ 3.8V p-p (H)
㉖ 1.5V p-p (H)
㉓ 3.4V p-p (H)
㉘ 1.6V p-p (H)
㉑ 0.74V p-p (H)
⑱ 0.8V p-p (H)
⑯ 6.8V p-p (H)
⑭ 2.3V p-p (H)
⑰ 1.2V p-p (H)
⑮ 7.4V p-p (H)
⑫ 1.6V p-p (H)
IC302 CX173
IC301 CX172
HUE PREF
HUE CENT
BKG
BRIGHT PICTURE
B. DRIVE
R. DRIVE
TP305 (BAND PASS)
TP307 (VIDEO)
TP304 (VIDEO)
TP301 (VIDEO)
TP302 (18V)
TP303 (12V)
TP306 SYNC
T301 3.58MHz TRAP
DL301
X301
ACC
A-1135-073-A
HD board
BA-11 WHT/YEL GC-6
CG-1 GRN ORG BA-9
CB-1 BLU ORG BA-8
CR-1 RED ORG BA-10
GB-12 BRN VIO BA-3 BA-4
BA-16 WHT BB-4
BA-14 WHT
BA-15 RED BB-2

IC , Q	D	ADJ
	307	
	305 410	RV401 RV302
310		
	306	
403 419 420		
308		RV303
407 408 417		
IC302		
418 307	412 411 414 413 407 408	RV304
406 412		
309 416	409	
413 409		RV305
306		
414		
415 411 410		
401 402	403 402 401	RV301
IC301		
301 302 305 304	301	
303	304 302 303	
IC , Q	D	ADJ

SCHEMATIC DIAGRAM
– BA Board –


A
B
C
D
E
F
G
1
2
3
4
TO GB-12
TO D-1
TO BB-6
D302~304 1S1555 SYNC SEP-1,2,3
Q301 2SC403C VIDEO AMP
Q302 2SC1364 VIDEO BUFFER-1
D301 1S1555 ANC
Q303 2SA678 ANC
Q304 2SC1364 ANC BUFFER
Q305 2SA678 SYNC SEP
Q306 2SC1384 12V REG
D401-403 1S1555 VIDEO SWITCH-1,2,3
Q401 2SC1364 VIDEO SWITCH
S906 HATCH SW TEST NORMAL
Q402 2SC1364 VIDEO BUFFER-2
Q417 2SC1364 CW BUFFER
Q418 2SC403C CW AMP
Q419 2SC1364 B-Y OUT
D411,412 1S1555 DEMOD-1,2
TO GA-10
TO Q-15
TO BB-1
Q403 2SA678 H.PULSE BUFFER
Q408 2SC1364 V.PULSE AMP
Q406,407 2SC1364 V.HATCH OSC-1,2
D407,408 1S1555 V.RESET-1,2
D409 1S1555 CLAMP-4
Q409 2SC1364 H.HATCH OSC
Q410,411 2SC1364 H.HATCH SLICER-1,2
D410 1S1555 HUE PREF CONTROL
D413,414 1S1555 DEMOD-3,4
Q420 2SC1364 R-Y OUT
HUE PREF
Q412 2SC1364 H.HATCH MIXER
Q413 2SC1364 V.HATCH MIXER
Q414 2SC1364 HATCH AMP
Q415 2SC1364 HATCH BUFFER
Q416 2SC1364 CHROMA BUFFER
IC302 CX173 Y-DEMOD
D305,306 1S1555 CLAMP-1,2
VIDEO AMP, SYNC SEP, CW AMP, CHROMA, Y-DEMOD HATCH-OSC/AMP
BA
A-1135-073-A
TO HD BOARD
TO CB-1
TO CG-1
TO CR-1
IC301
BURST AMP
CHROMA AMP
COLOR KILLER
Y. AMP
ACC DET
HUE CONT
3.58MHz OSC
CW AMP
ACC
T302 BPF
TP305 BAND PASS
CHROMA DEMOD
CLAMP
MATRIX
BLK
Y. CLAMP ABL, BRT
PULSE AMP
BKG
HUE CENT
B. DRIVE
G. DRIVE
R. DRIVE
Q310 2SC1364 BLK
D307 SIB01-02 CLAMP-3
Q307-309 2SC403C GREEN, BLUE, RED VIDEO DRIVE
BRIGHT PICTURE MIN—MAX 0.95V—0.8V
T301 3.58MHz TRAP
IC301 CX172 CHROMA
TO BB-4
TO BB-2
TO E-11
TO DY(V)<R>
TO GC-6
① 14V p-p (H)
⑤ 2.5Vp-p(H)
⑦ 2.4Vp-p(H)
⑧ 8Vp-p(H)
⑨ 0.8Vp-p(H)
⑩ 0.75Vp-p(H)
⑪ 0.75Vp-p(H)
⑫ 1.6Vp-p(H)
⑬ 1.1Vp-p(H)
⑭ 2.3Vp-p(H)
⑮ 7.4Vp-p(H)
⑯ 6.8Vp-p(H)
⑰ 1.2Vp-p(H)
⑱ 0.8Vp-p(H)
⑲ 0.8Vp-p(H)
⑳ 1.8Vp-p(H)
㉑ 0.74Vp-p(H)
㉒ 6Vp-p(H)
㉓ 3.4Vp-p(H)
㉔ 2.8Vp-p(H)
㉕ 3.8Vp-p(H)
㉖ 1.5Vp-p(H)
㉗ 1.6Vp-p(H)
㉘ 1.6Vp-p(H)

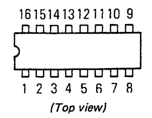
R-Y AMP, VIRS
PEDESTAL CLAMP
GAIN CONTROL,
PULSE AMP

BB **BB**

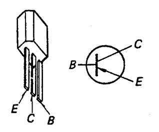
● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

MOUNTING DIAGRAM
– BB Board –

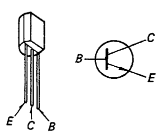
TP4361A


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

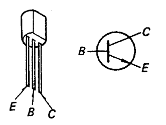
2SA678



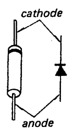
2SC1364



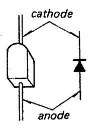
2SC2135

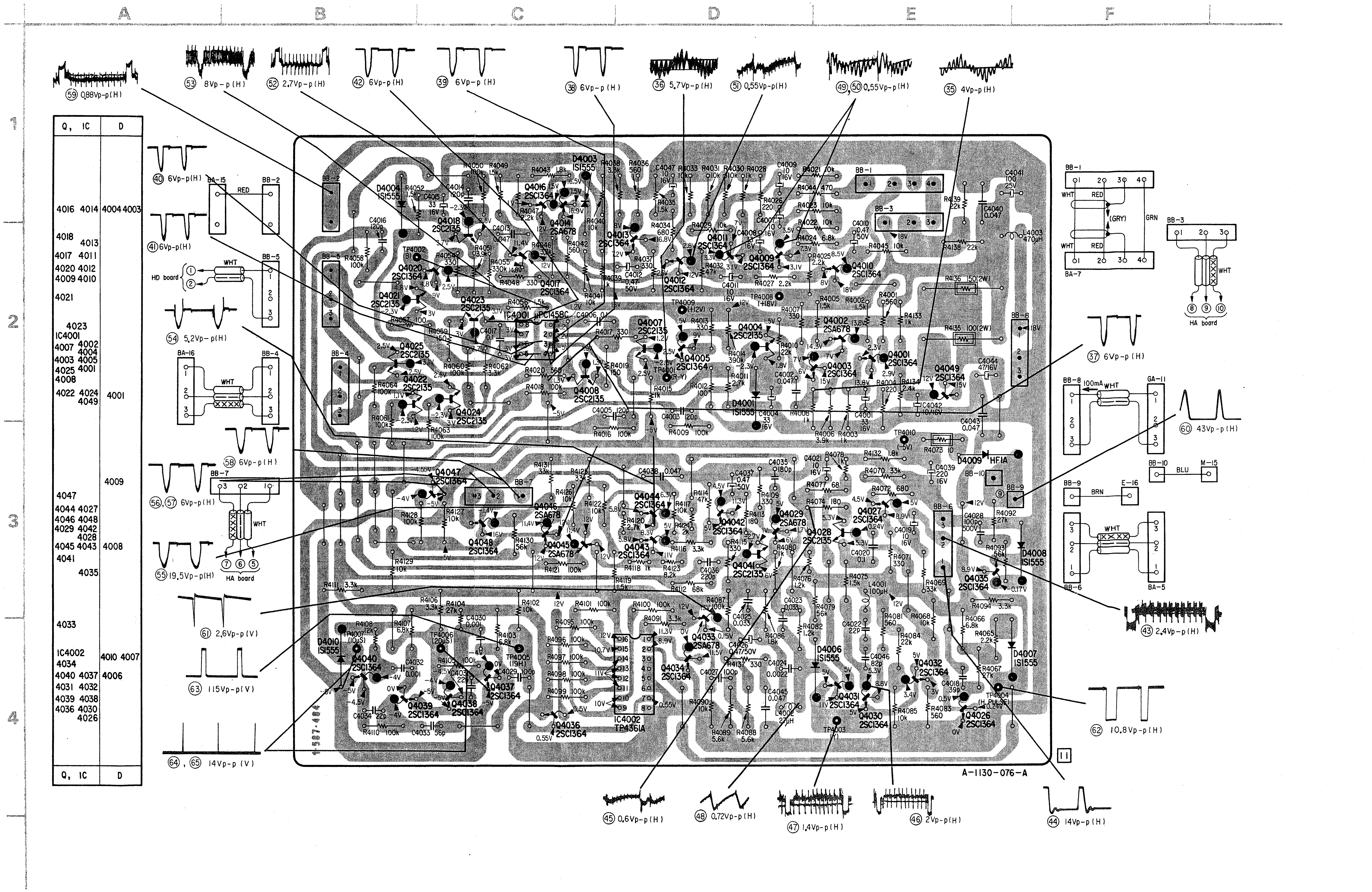


1S1555


cathode
anode

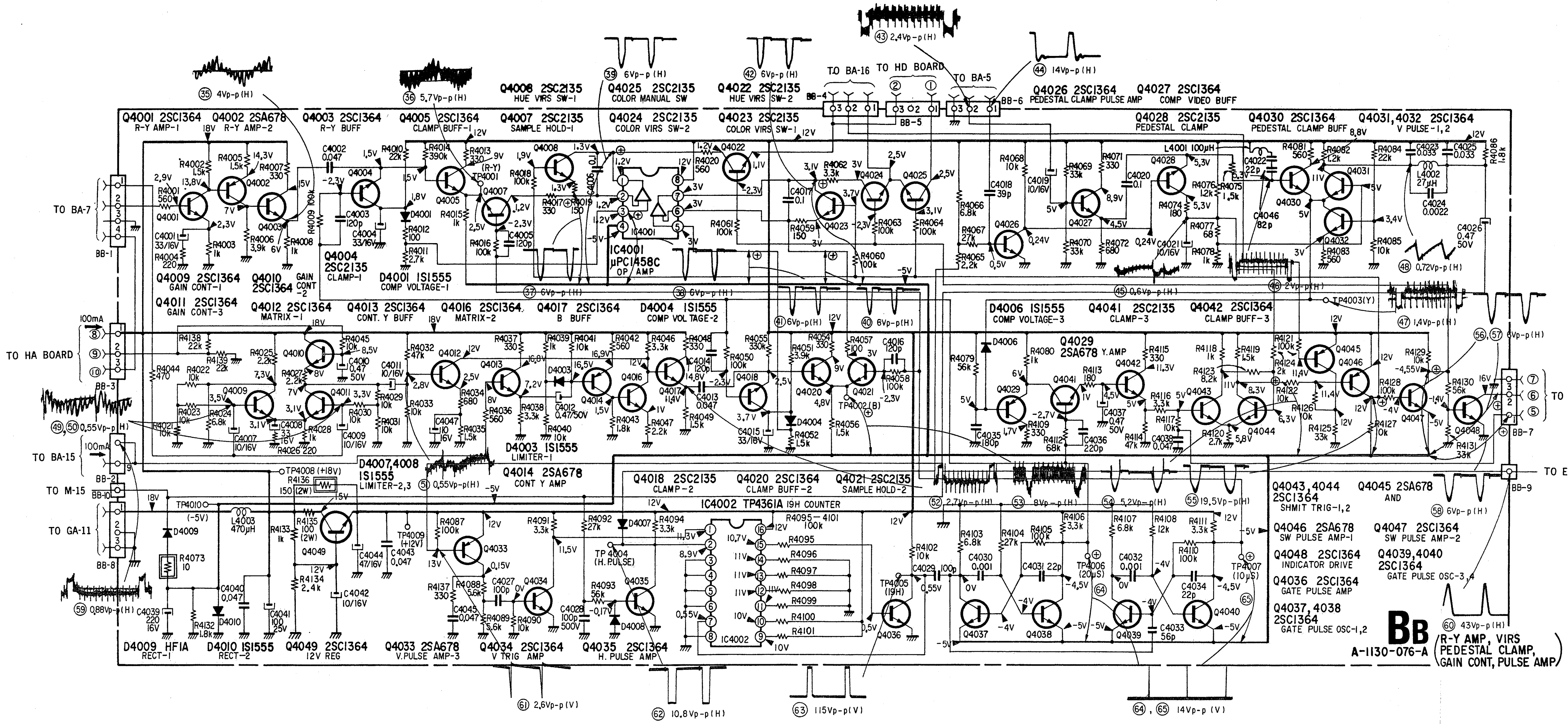
HF1A


cathode
anode


A
B
C
D
E
F
1
2
3
4
(59) 0.88Vp-p(H)
(53) 8Vp-p(H)
(52) 2.7Vp-p(H)
(42) 6Vp-p(H)
(39) 6Vp-p(H)
(38) 6Vp-p(H)
(36) 5.7Vp-p(H)
(51) 0.55Vp-p(H)
(49),(50) 0.55Vp-p(H)
(35) 4Vp-p(H)
(40) 6Vp-p(H)
(41) 6Vp-p(H)
HD board
WHT
RED
BA-15
BB-2
BB-5
(54) 5.2Vp-p(H)
BA-16
BB-4
(58) 6Vp-p(H)
(56),(57) 6Vp-p(H)
BB-7
(55) 19.5Vp-p(H)
(7) (6) (5)
HA board
(61) 2.6Vp-p(V)
(63) 115Vp-p(V)
(64), (65) 14Vp-p(V)
(45) 0.6Vp-p(H)
(48) 0.72Vp-p(H)
(47) 1.4Vp-p(H)
(46) 2Vp-p(H)
(44) 14Vp-p(H)
(62) 10.8Vp-p(H)
(43) 2.4Vp-p(H)
(60) 43Vp-p(H)
(37) 6Vp-p(H)
BB-1
BA-7
(GRY)
GRN
BB-3
(8) (9) (10)
HA board
BB-8
100mA
GA-11
BB-10
BLU
M-15
BB-9
BRN
E-16
BB-6
BA-5
IC4001 μPC1458C
IC4002 TP4361A
TP4001 (10μS)
TP4005 (19H)
TP4006 (20μS)
TP4008 (+18V)
TP4009 (+12V)
TP4010 (-15V)
TP4003 (Y)
TP4004 (H PULSE)
1-597-404
A-1130-076-A

Q, IC		D	
4016	4014	4004	4003
4018	4013		
4017	4011		
4020	4012		
4009	4010		
4021			
	4023		
IC4001			
4007	4002		
	4004		
4003	4005		
4025	4001		
4008			
4022	4024	4001	
	4049		
		4009	
4047			
4044	4027		
4046	4048		
4029	4042		
	4028		
4045	4043	4008	
4041			
	4035		
4033			
IC4002		4010	4007
4034			
4040	4037	4006	
4031	4032		
4039	4038		
4036	4030		
	4026		
Q, IC		D	

SCHEMATIC DIAGRAM
— BB Board —

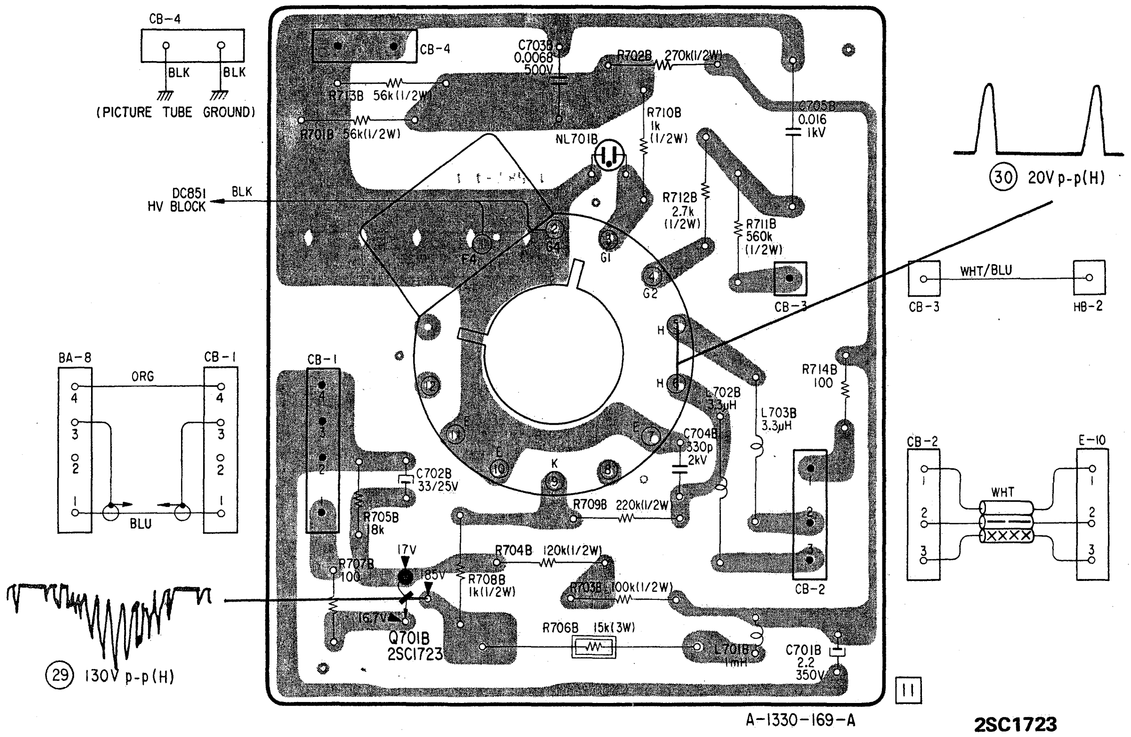

Q4001 2SC1364 R-Y AMP-1
Q4002 2SA678 R-Y AMP-2
Q4003 2SC1364 R-Y BUFF
Q4005 2SC1364 CLAMP BUFF-1
Q4006 2SC2135 HUE VIRS SW-1
Q4007 2SC2135 SAMPLE HOLD-1
Q4025 2SC2135 COLOR MANUAL SW
Q4024 2SC2135 COLOR VIRS SW-2
Q4022 2SC2135 HUE VIRS SW-2
Q4023 2SC2135 COLOR VIRS SW-1
Q4026 2SC1364 PEDESTAL CLAMP PULSE AMP
Q4027 2SC1364 COMP VIDEO BUFF
Q4028 2SC2135 PEDESTAL CLAMP
Q4030 2SC1364 PEDESTAL CLAMP BUFF
Q4031,4032 2SC1364 V PULSE-1,2
Q4004 2SC2135 CLAMP-1
D4001 1S1555 COMP VOLTAGE-1
IC4001 μPC1458C OP AMP
Q4009 2SC1364 GAIN CONT-1
Q4010 2SC1364 GAIN CONT-2
Q4011 2SC1364 GAIN CONT-3
Q4012 2SC1364 MATRIX-1
Q4013 2SC1364 CONT. Y BUFF
Q4016 2SC1364 MATRIX-2
Q4017 2SC1364 B BUFF
D4004 1S1555 COMP VOLTAGE-2
D4006 1S1555 COMP VOLTAGE-3
Q4041 2SC2135 CLAMP-3
Q4042 2SC1364 CLAMP BUFF-3
Q4029 2SA678 Y.AMP
D4003 1S1555 LIMITER-1
D4007,4008 1S1555 LIMITER-2,3
Q4014 2SA678 CONT Y AMP
Q4018 2SC2135 CLAMP-2
Q4020 2SC1364 CLAMP BUFF-2
Q4021 2SC2135 SAMPLE HOLD-2
IC4002 TP4361A 19H COUNTER
Q4043,4044 2SC1364 SHMIT TRIG-1,2
Q4045 2SA678 AND
Q4046 2SA678 SW PULSE AMP-1
Q4047 2SC1364 SW PULSE AMP-2
Q4048 2SC1364 INDICATOR DRIVE
Q4039,4040 2SC1364 GATE PULSE OSC-3,4
Q4036 2SC1364 GATE PULSE AMP
Q4037,4038 2SC1364 GATE PULSE OSC-1,2
D4009 HF1A RECT-1
D4010 1S1555 RECT-2
Q4049 2SC1364 12V REG
Q4033 2SA678 V.PULSE AMP-3
Q4034 2SC1364 V TRIG AMP
Q4035 2SC1364 H. PULSE AMP
TO BA-7
TO HA BOARD
TO BA-15
TO M-15
TO GA-11
TO BA-16
TO HD BOARD
TO BA-5
TO E-16
BB-1
BB-3
BB-5
BB-6
BB-7
BB-8
BB-9
(35) 4Vp-p(H)
(36) 5.7Vp-p(H)
(39) 6Vp-p(H)
(42) 6Vp-p(H)
(43) 2.4Vp-p(H)
(44) 14Vp-p(H)
(37) 6Vp-p(H)
(38) 6Vp-p(H)
(41) 6Vp-p(H)
(40) 6Vp-p(H)
(45) 0.6Vp-p(H)
(46) 2Vp-p(H)
(47) 1.4Vp-p(H)
(48) 0.72Vp-p(H)
(49),(50) 0.55Vp-p(H)
(51) 0.55Vp-p(H)
(52) 2.7Vp-p(H)
(53) 6Vp-p(H)
(54) 5.2Vp-p(H)
(55) 19.5Vp-p(H)
(56),(57) 6Vp-p(H)
(58) 6Vp-p(H)
(59) 0.88Vp-p(H)
(60) 43Vp-p(H)
(61) 2.6Vp-p(V)
(62) 10.8Vp-p(H)
(63) 115Vp-p(V)
(64),(65) 14Vp-p(V)
BB
A-1130-076-A
(R-Y AMP, VIRS PEDESTAL CLAMP, GAIN CONT, PULSE AMP)

[B. OUT] CB

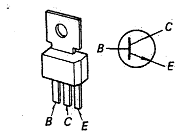
CG

MOUNTING DIAGRAM

– CB Board –

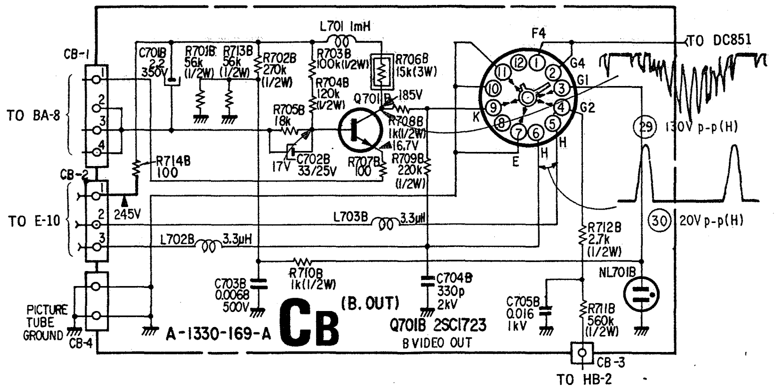

CB-4
BLK
BLK
(PICTURE TUBE GROUND)
DC851 HV BLOCK
BLK
BA-8
CB-1
ORG
BLU
CB-3
WHT/BLU
HB-2
CB-2
E-10
WHT
C703B 0.0068 500V
R702B 270k(1/2W)
R713B 56k(1/2W)
R701B 56k(1/2W)
NL701B
R710B 1k (1/2W)
C705B 0.016 1kV
R712B 2.7k (1/2W)
R711B 560k (1/2W)
R714B 100
L702B 3.3μH
L703B 3.3μH
C704B 330p 2kV
C702B 33/25V
R705B 18k
R707B 100
R704B 120k(1/2W)
R709B 220k(1/2W)
R708B 1k(1/2W)
R703B 100k(1/2W)
R706B 15k(3W)
L701B 1mH
C701B 2.2 350V
Q701B 2SC1723
17V
185V
16.7V
F4
G4
G1
G2
H
K
E
⑳ 20V p-p(H)
㉙ 130V p-p(H)
11
A-1330-169-A

2SC1723



SCHEMATIC DIAGRAM

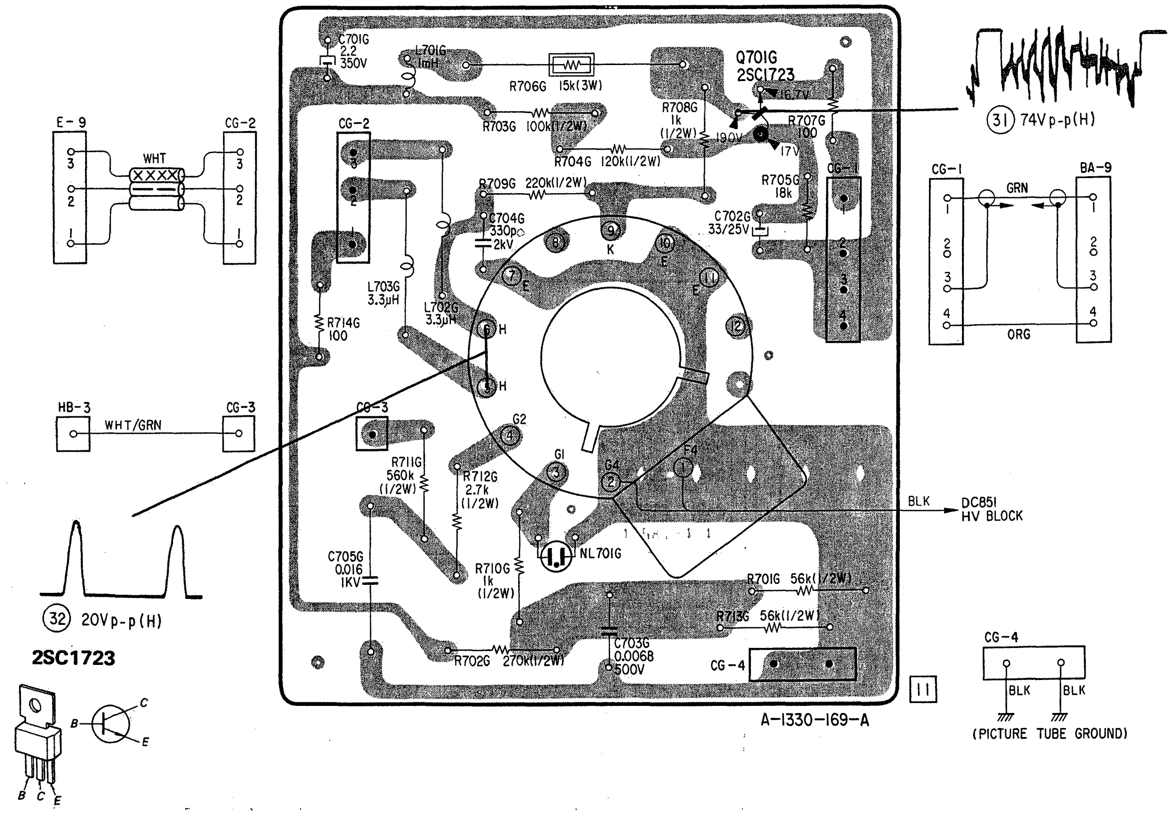
– CB Board –


CB-1
TO BA-8
CB-2
TO E-10
PICTURE TUBE GROUND
CB-4
C701B 2.2 350V
R701B 56k (1/2W)
R713B 56k (1/2W)
R702B 270k (1/2W)
L701 1mH
R703B 100k(1/2W)
R704B 120k (1/2W)
R706B 15k(3W)
Q701B
185V
R708B 1k(1/2W)
16.7V
R705B 18k
17V
C702B 33/25V
R707B 100
R709B 220k (1/2W)
R714B 100
245V
L703B 3.3μH
L702B 3.3μH
C703B 0.0068 500V
R710B 1k(1/2W)
C704B 330p 2kV
C705B 0.016 1kV
R712B 2.7k (1/2W)
R711B 560k (1/2W)
NL701B
F4
G4
G1
G2
K
E
H
TO DC851
㉙ 130V p-p(H)
㉚ 20V p-p(H)
CB-3
TO HB-2
A-1330-169-A
CB (B. OUT)
Q701B 2SC1723
B VIDEO OUT

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

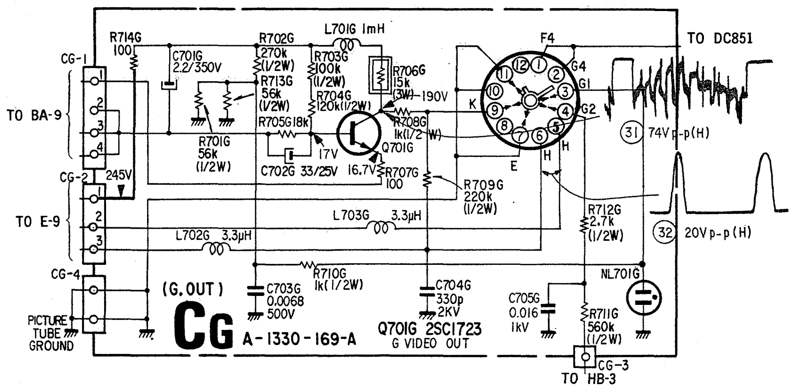
MOUNTING DIAGRAM

– CG Board –


E-9
CG-2
WHT
HB-3
WHT/GRN
CG-3
CG-1
GRN
BA-9
ORG
BLK
DC851 HV BLOCK
CG-4
BLK
BLK
(PICTURE TUBE GROUND)
C701G 2.2 350V
L701G 1mH
R706G 15k(3W)
R703G 100k(1/2W)
R704G 120k(1/2W)
R708G 1k (1/2W)
Q701G 2SC1723
190V
16.7V
17V
R707G 100
R705G 18k
C702G 33/25V
R709G 220k(1/2W)
C704G 330p 2kV
L703G 3.3μH
L702G 3.3μH
R714G 100
R711G 560k (1/2W)
R712G 2.7k (1/2W)
R710G 1k (1/2W)
NL701G
C705G 0.016 1KV
R701G 56k(1/2W)
R713G 56k(1/2W)
R702G 270k(1/2W)
C703G 0.0068 500V
㉛ 74V p-p(H)
㉜ 20V p-p(H)
11
A-1330-169-A
2SC1723
B
C
E

SCHEMATIC DIAGRAM

– CG Board –


CG-1
TO BA-9
CG-2
TO E-9
CG-4
PICTURE TUBE GROUND
R714G 100
C701G 2.2/350V
R701G 56k (1/2W)
R702G 270k (1/2W)
R713G 56k (1/2W)
R705G 18k
C702G 33/25V
17V
L701G 1mH
R703G 100k (1/2W)
R704G 120k(1/2W)
R706G 15k (3W)
190V
R708G 1k(1/2W)
Q701G
16.7V
R707G 100
R709G 220k (1/2W)
245V
L703G 3.3μH
L702G 3.3μH
R710G 1k(1/2W)
C703G 0.0068 500V
C704G 330p 2KV
C705G 0.016 1kV
R712G 2.7k (1/2W)
R711G 560k (1/2W)
NL701G
F4
G4
G1
G2
K
E
H
TO DC851
㉛ 74V p-p(H)
㉜ 20V p-p(H)
CG-3
TO HB-3
(G. OUT)
CG
A-1330-169-A
Q701G 2SC1723
G VIDEO OUT

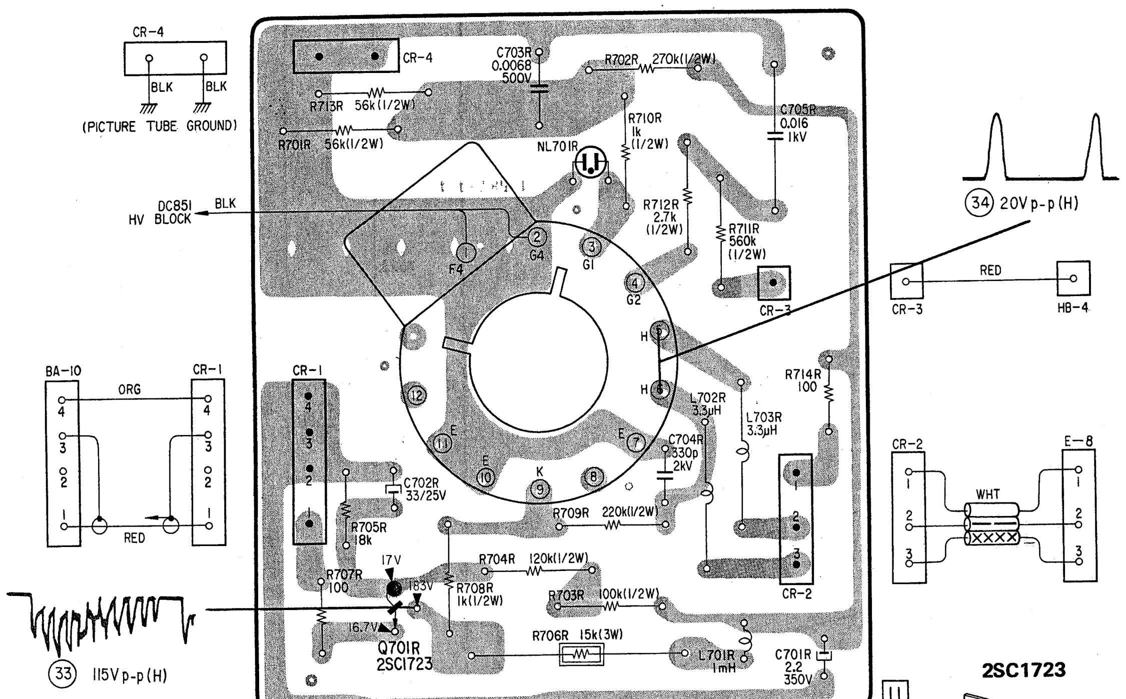
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

[R. OUT] **CR**

VB [CHANNEL INDICATION]

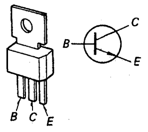
MOUNTING DIAGRAM
– CR Board –

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

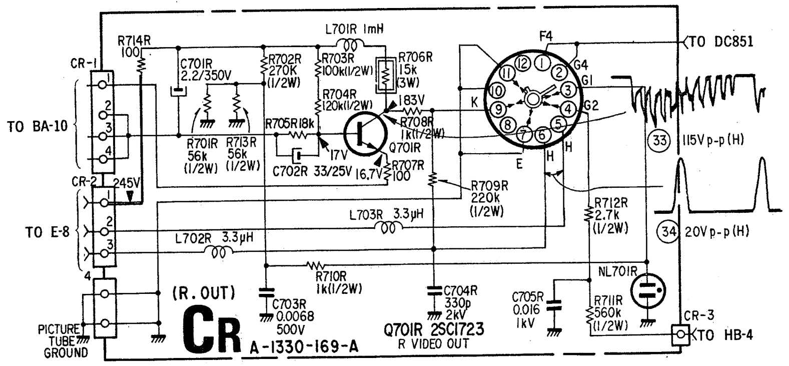

CR-4
BLK
BLK
(PICTURE TUBE GROUND)
DC851 HV BLOCK
BLK
BA-10
CR-1
ORG
RED
4
3
2
1
C703R 0.0068 500V
R702R 270k(1/2W)
R713R 56k(1/2W)
R701R 56k(1/2W)
R710R 1k (1/2W)
NL701R
C705R 0.016 1kV
R712R 2.7k (1/2W)
R711R 560k (1/2W)
CR-3
F4
G4
G1
G2
H
H
E
E
E
K
R714R 100
L702R 3.3μH
L703R 3.3μH
C704R 330p 2kV
C702R 33/25V
R705R 18k
R709R 220k(1/2W)
R704R 120k(1/2W)
R707R 100
17V
183V
16.7V
R708R 1k(1/2W)
R703R 100k(1/2W)
R706R 15k(3W)
L701R 1mH
C701R 2.2 350V
Q701R 2SC1723
CR-2
(34) 20Vp-p(H)
(33) 115Vp-p(H)
CR-3
RED
HB-4
CR-2
E-8
WHT
1
2
3
11

A-1330-169-A

2SC1723

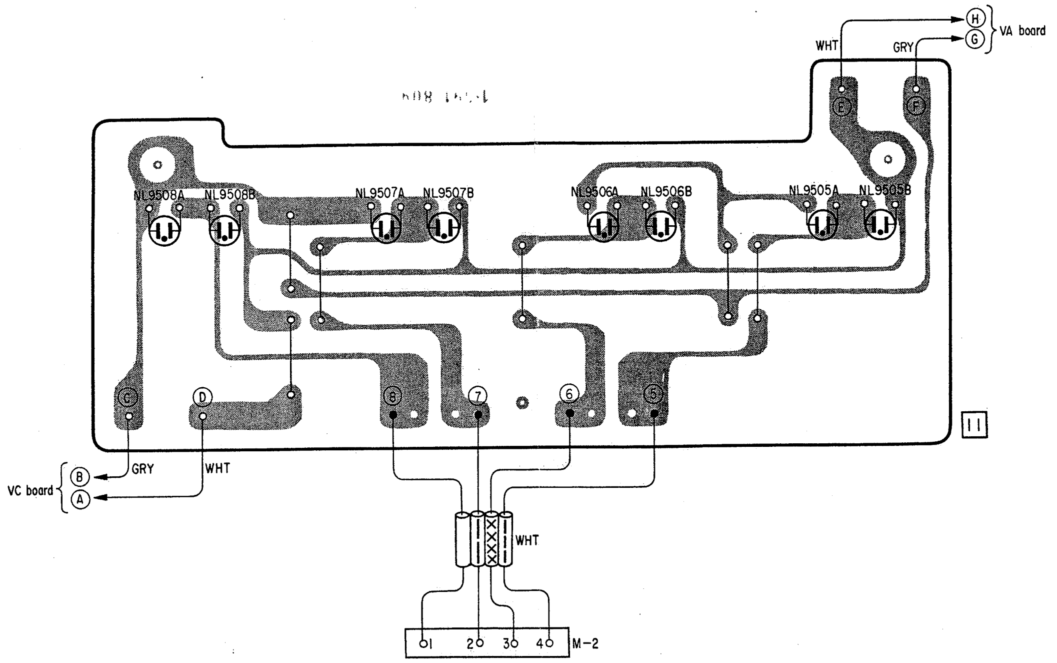


SCHEMATIC DIAGRAM
– CR Board –

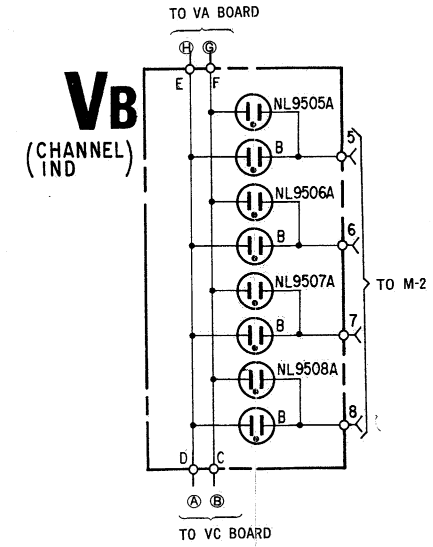

CR-1
TO BA-10
CR-2
TO E-8
PICTURE TUBE GROUND
R714R 100
245V
C701R 2.2/350V
R701R 56k (1/2W)
R713R 56k (1/2W)
R702R 270K (1/2W)
L701R 1mH
R703R 100k(1/2W)
R704R 120k(1/2W)
R706R 15k (3W)
R705R 18k
C702R 33/25V
17V
16.7V
183V
R708R 1k(1/2W)
Q701R
R707R 100
R709R 220k (1/2W)
L703R 3.3μH
L702R 3.3μH
R710R 1k(1/2W)
C703R 0.0068 500V
C704R 330p 2kV
C705R 0.016 1kV
R712R 2.7k (1/2W)
R711R 560k (1/2W)
NL701R
F4
G4
G1
G2
K
E
H
H
TO DC851
(33) 115Vp-p(H)
(34) 20Vp-p(H)
CR-3
TO HB-4
(R.OUT)
CR
A-1330-169-A
Q701R 2SC1723
R VIDEO OUT

MOUNTING DIAGRAM
– VB Board –

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.


WHT
GRY
Ⓗ
Ⓖ
VA board
Ⓔ
Ⓕ
NL9508A
NL9508B
NL9507A
NL9507B
NL9506A
NL9506B
NL9505A
NL9505B
Ⓒ
Ⓓ
⑧
⑦
⑥
⑤
11
GRY
WHT
VC board
Ⓑ
Ⓐ
WHT
1
2
3
4
M-2

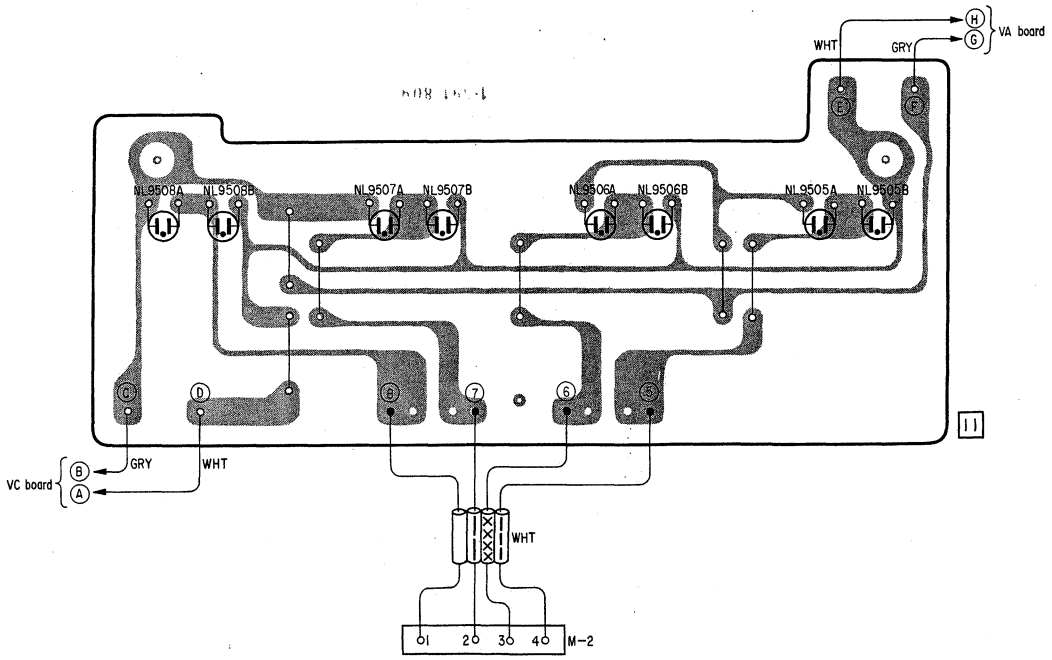
SCHEMATIC DIAGRAM
– VB Board –


TO VA BOARD
Ⓗ
Ⓖ
E
F
VB
(CHANNEL IND)
NL9505A
B
NL9506A
B
NL9507A
B
NL9508A
B
5
6
7
8
TO M-2
D
C
Ⓐ
Ⓑ
TO VC BOARD

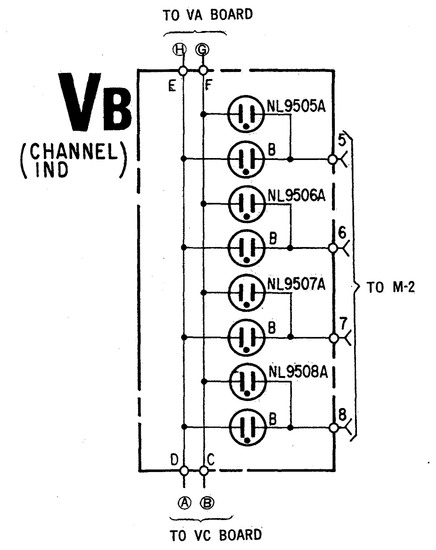
VB [CHANNEL INDICATION]

MOUNTING DIAGRAM
— VB Board —

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.


WHT
GRY
H
G
VA board
E
F
NL9508A
NL9508B
NL9507A
NL9507B
NL9506A
NL9506B
NL9505A
NL9505B
C
D
8
7
6
5
11
VC board
B
A
GRY
WHT
WHT
1
2
3
4
M-2

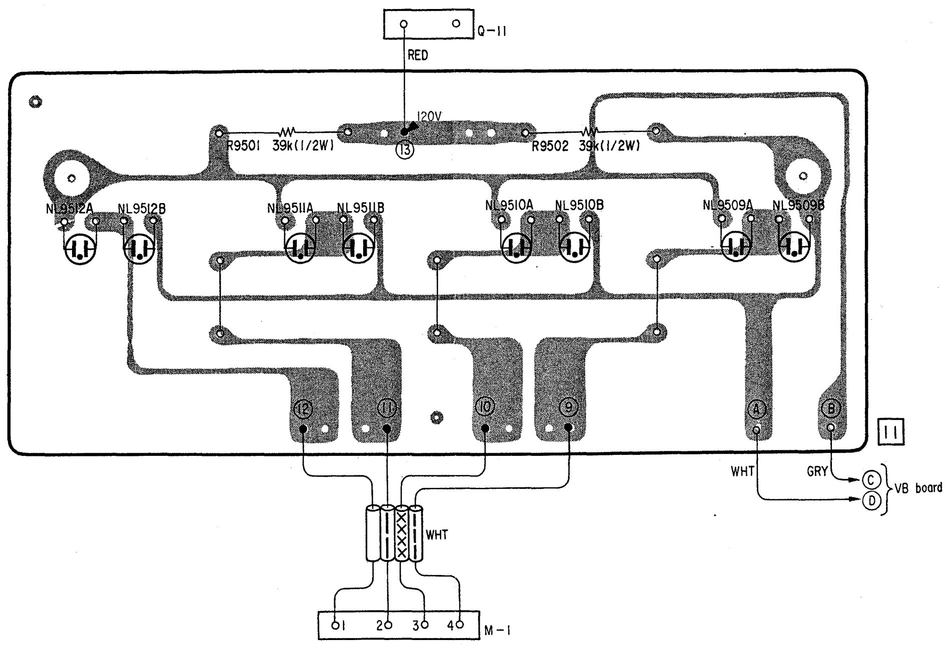
SCHEMATIC DIAGRAM
— VB Board —


TO VA BOARD
H
G
E
F
VB
(CHANNEL IND)
NL9505A
B
NL9506A
B
NL9507A
B
NL9508A
B
5
6
7
8
TO M-2
D
C
A
B
TO VC BOARD

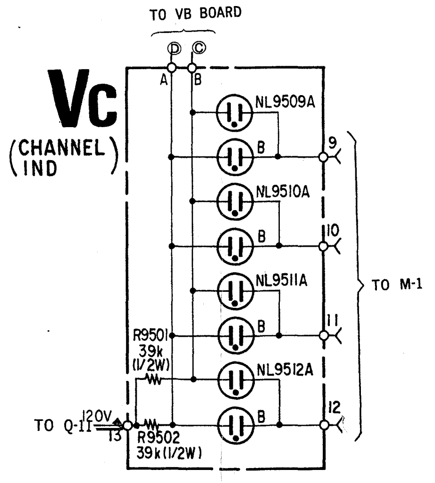
[CHANNEL INDICATION] **Vc**

MOUNTING DIAGRAM
— VC Board —

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.


Q-11
RED
120V
R9501 39k(1/2W)
13
R9502 39k(1/2W)
NL9512A
NL9512B
NL9511A
NL9511B
NL9510A
NL9510B
NL9509A
NL9509B
12
11
10
9
A
B
11
WHT
GRY
C
D
VB board
WHT
1
2
3
4
M-1

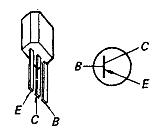
SCHEMATIC DIAGRAM
—VC Board —


TO VB BOARD
D
C
A
B
Vc
(CHANNEL IND)
NL9509A
B
NL9510A
B
NL9511A
B
NL9512A
B
9
10
11
12
TO M-1
R9501 39k (1/2W)
TO Q-11
120V
13
R9502 39k(1/2W)

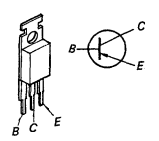
D

MOUNTING DIAGRAM
— D Board —

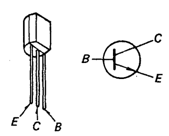
2SA678



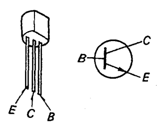
2SB568



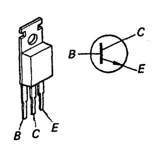
2SC1364



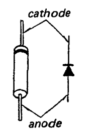
2SC1475
2SC1670



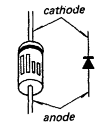
2SD478



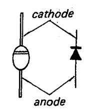
1S1555

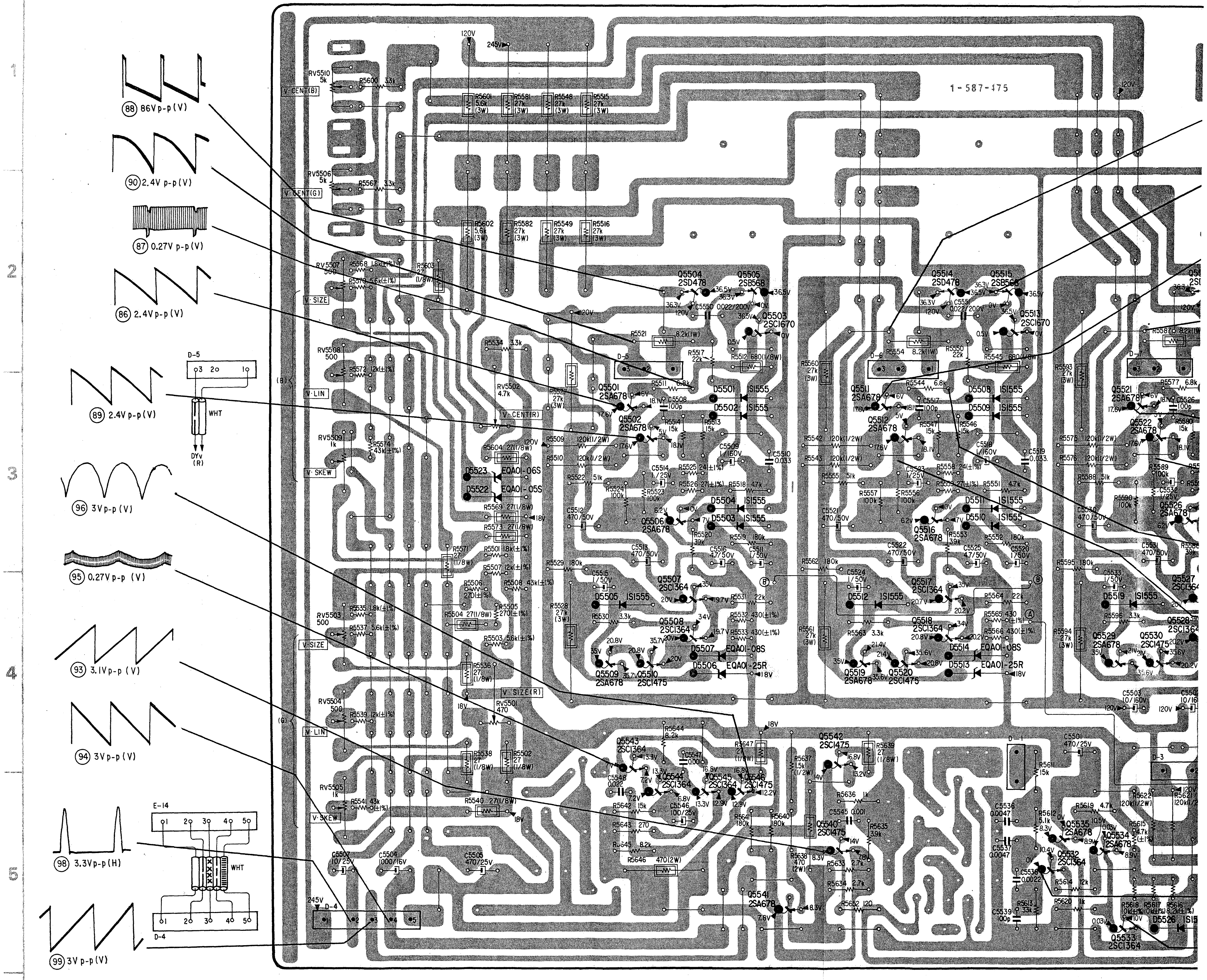

cathode
anode

EQA01-05S
EQA01-06S
EQA01-08S
EQA01-2SR

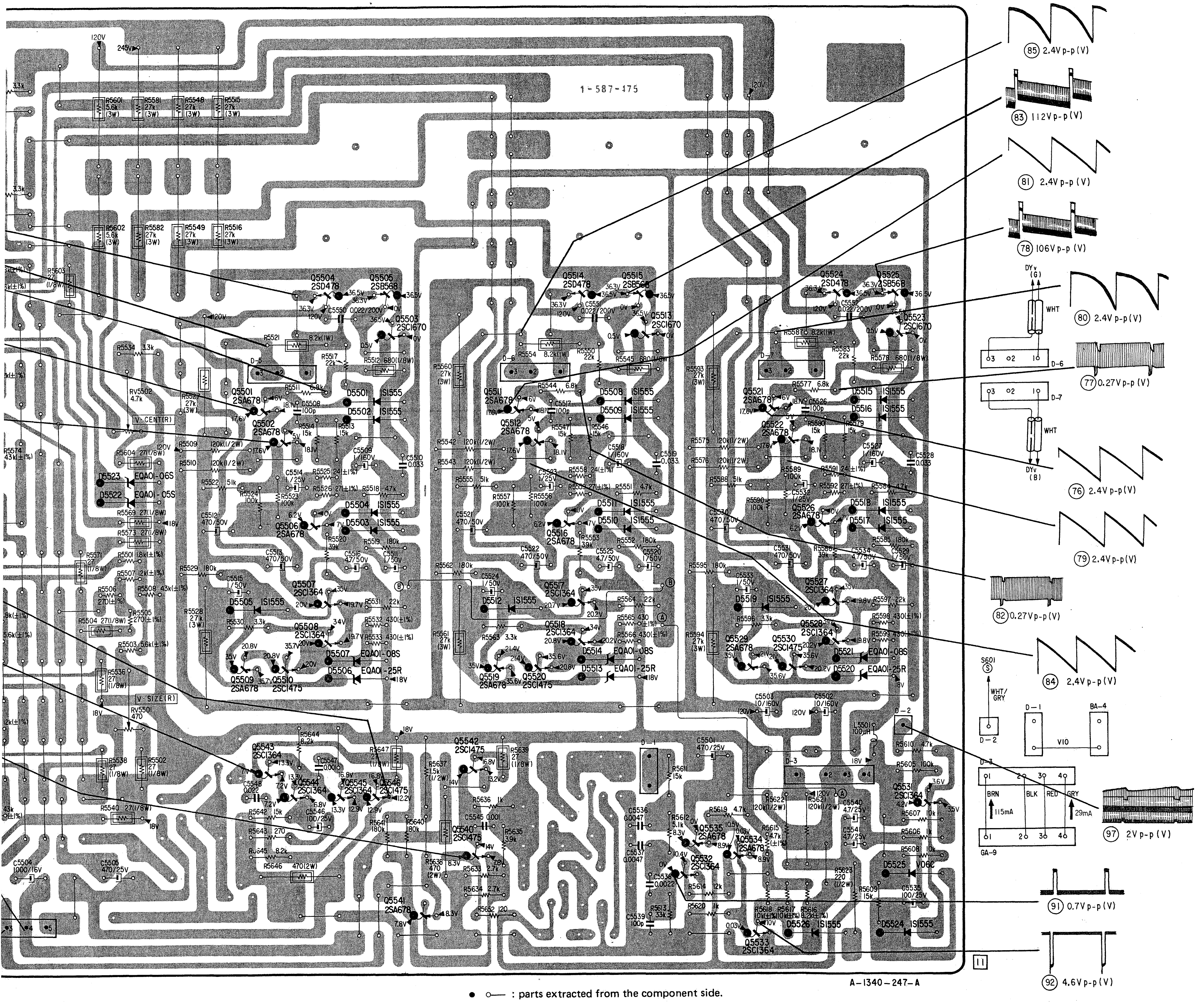

cathode
anode

V06C


cathode
anode


1
2
3
4
5
(88) 86Vp-p(V)
(90) 2.4V p-p(V)
(87) 0.27V p-p(V)
(86) 2.4V p-p(V)
(89) 2.4V p-p(V)
(96) 3Vp-p(V)
(95) 0.27Vp-p (V)
(93) 3.1Vp-p (V)
(94) 3Vp-p(V)
(98) 3.3Vp-p(H)
(99) 3Vp-p(V)
D-5
WHT
DYv (R)
E-14
D-4
1-587-175
V-CENT(B)
V-CENT(G)
V-CENT(R)
V-SIZE
V-SIZE(R)
V-LIN
V-SKEW
(B)
(G)
120V
245V
Q5501 2SA678
Q5502 2SA678
Q5503 2SC1670
Q5504 2SD478
Q5505 2SB568
Q5506 2SA678
Q5507 2SC1364
Q5508 2SC1364
Q5509 2SA678
Q5510 2SC1475
Q5511 2SA678
Q5512 2SA678
Q5513 2SC1670
Q5514 2SD478
Q5515 2SB568
Q5516 2SA678
Q5517 2SC1364
Q5518 2SC1364
Q5519 2SA678
Q5520 2SC1475
Q5540 2SC1475
Q5541 2SA678
Q5542 2SC1475
Q5543 2SC1364
Q5544 2SC1364
Q5545 2SC1364
Q5546 2SC1475
D5522 EQA01-05S
D5523 EQA01-06S
D5507 EQA01-08S
D5506 EQA01-25R
D5514 EQA01-08S
D5513 EQA01-25R

● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.


1-587-475
A-1340-247-A
85 2.4V p-p (V)
83 112V p-p (V)
81 2.4V p-p (V)
78 106V p-p (V)
80 2.4V p-p (V)
77 0.27V p-p (V)
76 2.4V p-p (V)
79 2.4V p-p (V)
82 0.27V p-p (V)
84 2.4V p-p (V)
97 2V p-p (V)
91 0.7V p-p (V)
92 4.6V p-p (V)
DYv (G)
DYv (B)
WHT
D-6
D-7
S601
WHT/GRY
D-1
D-2
BA-4
V10
D-3
GA-9
BRN
BLK
RED
GRY
115mA
29mA
V. CENT(R)
V. SIZE(R)
RV5502
RV5501
Q5504 2SD478
Q5505 2SB568
Q5514 2SD478
Q5515 2SB568
Q5524 2SD478
Q5525 2SB568
Q5503 2SC1670
Q5513 2SC1670
Q5523 2SC1670
Q5501 2SA678
Q5502 2SA678
Q5511 2SA678
Q5512 2SA678
Q5521 2SA678
Q5522 2SA678
Q5506 2SA678
Q5516 2SA678
Q5526 2SA678
Q5507 2SC1364
Q5517 2SC1364
Q5527 2SC1364
Q5508 2SC1364
Q5518 2SC1364
Q5528 2SC1364
Q5509 2SA678
Q5510 2SC1475
Q5519 2SA678
Q5520 2SC1475
Q5529 2SA678
Q5530 2SC1475
Q5543 2SC1364
Q5544 2SC1364
Q5545 2SC1364
Q5546 2SC1475
Q5542 2SC1475
Q5540 2SC1475
Q5541 2SA678
Q5535 2SA678
Q5534 2SA678
Q5532 2SC1364
Q5531 2SC1364
Q5533 2SC1364
D5501 1S1555
D5502 1S1555
D5503 1S1555
D5504 1S1555
D5505 1S1555
D5506 EQA01-25R
D5507 EQA01-08S
D5522 EQA01-05S
D5523 EQA01-06S
D5524 1S1555
D5525 V06C
D5526 1S1555
L5501 100μH
120V
245V
18V

● ○— : parts extracted from the component side.

● ●— : parts extracted from the conductor side.

D

[V. OSC, V. CENT
V. OUT, V. PARABOLA]

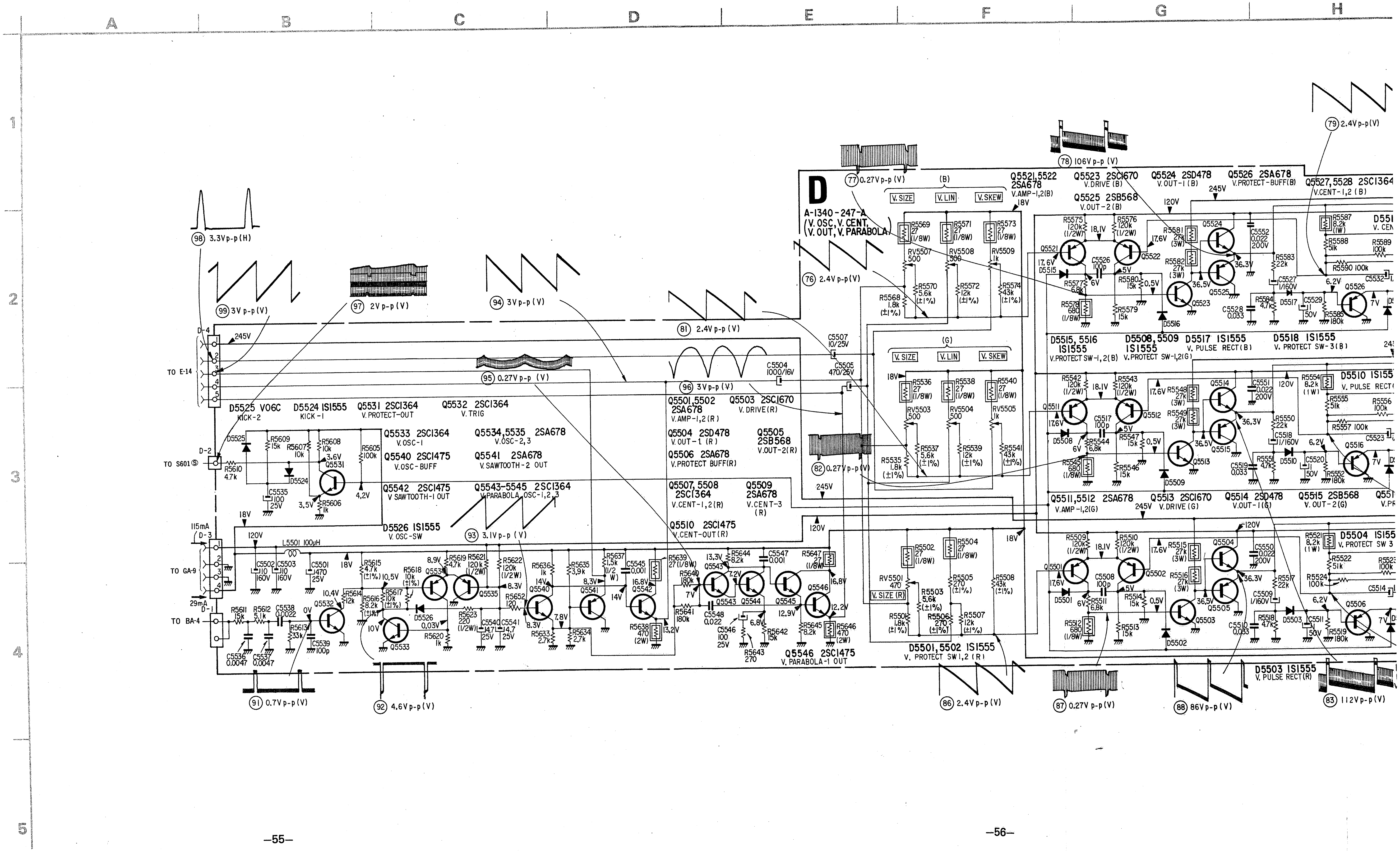
Q	D	ADJ
		RV5510
		RV5506
5504,5505 5514,5515 5524,5525		RV5507
5503,5513 5523		
		RV5508
5501,5511 5521	5501,5508 5515 5502,5509 5516	RV5502
5502,5512 5522		
	5523	RV5509
	5522	
5506,5516 5526	5504,5511 5518	
	5503,5510 5517	
5507,5517 5527	5505,5512 5519	
5508 5518,5528 5509,5510		RV5503
5519,5520 5529,5530	5514,5521 5507	
	5513,5520 5506	
		RV5501
		RV5504
5543,5542		
5544,5545 5546 5531		RV5505
5540,5535 5534 5532		
	5525	
5541		
5533	5526,5524	
Q	D	ADJ

D **D**

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

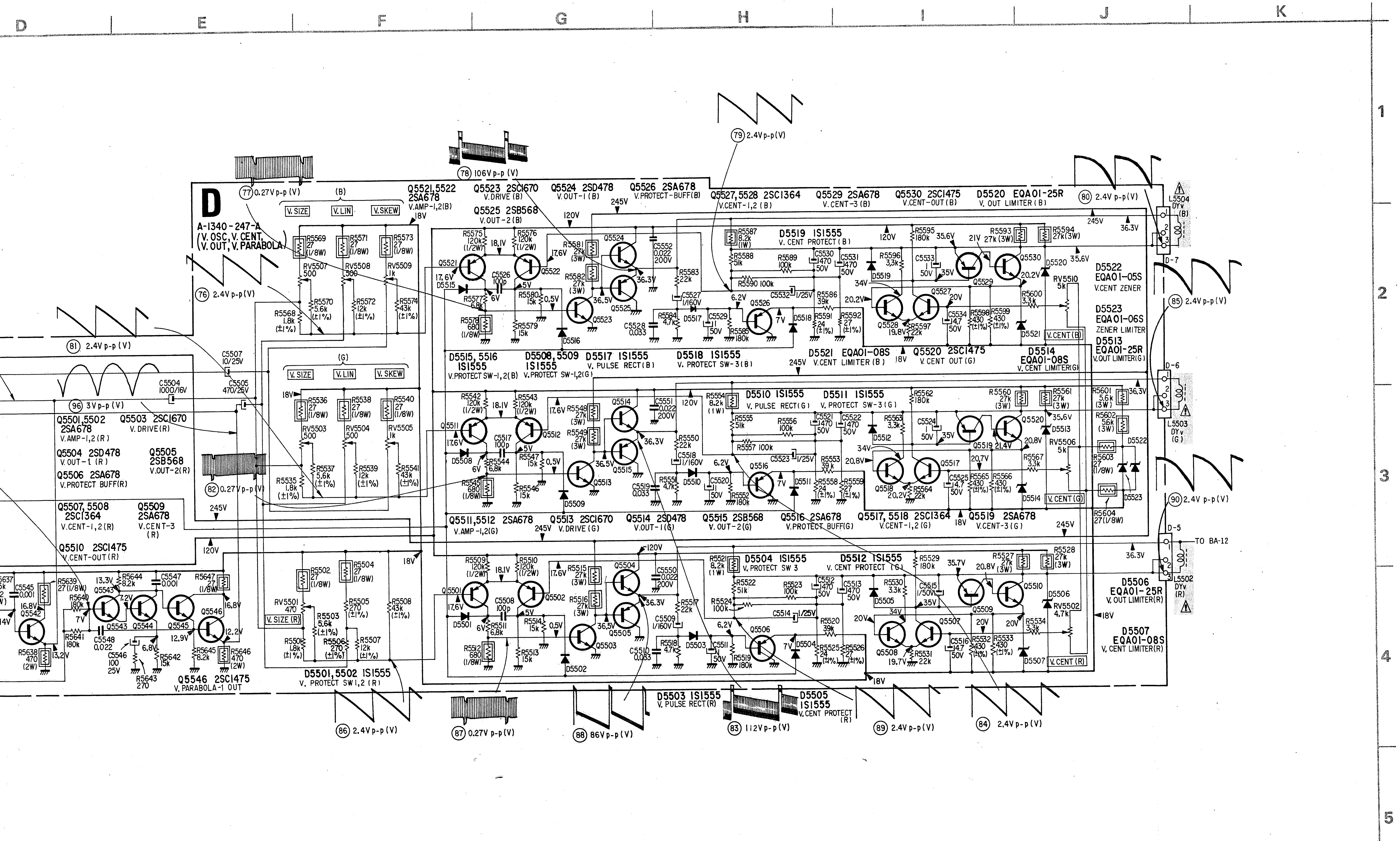
Note: I

SCHEMATIC DIAGRAM
— D Board —


A
B
C
D
E
F
G
H
1
2
3
4
5
D
A-1340-247-A
(V. OSC, V. CENT, V. OUT, V. PARABOLA)
(98) 3.3Vp-p(H)
(99) 3V p-p(V)
(97) 2V p-p(V)
(94) 3V p-p(V)
(95) 0.27V p-p (V)
(96) 3V p-p(V)
(93) 3.1V p-p (V)
(91) 0.7V p-p(V)
(92) 4.6V p-p(V)
(81) 2.4V p-p (V)
(76) 2.4V p-p(V)
(77) 0.27V p-p (V)
(78) 106V p-p (V)
(79) 2.4V p-p(V)
(82) 0.27V p-p(V)
(86) 2.4V p-p(V)
(87) 0.27V p-p(V)
(88) 86V p-p(V)
(83) 112V p-p(V)
TO E-14
TO S601 (S)
TO GA-9
TO BA-4
D-4
D-2
D-3
D-1
245V
115mA
29mA
18V
120V
L5501 100μH
D5525 V06C KICK-2
D5524 1S1555 KICK-1
Q5531 2SC1364 V. PROTECT-OUT
Q5532 2SC1364 V. TRIG
Q5533 2SC1364 V. OSC-1
Q5534, 5535 2SA678 V. OSC-2, 3
Q5540 2SC1475 V. OSC-BUFF
Q5541 2SA678 V. SAWTOOTH-2 OUT
Q5542 2SC1475 V SAWTOOTH-1 OUT
Q5543-5545 2SC1364 V. PARABOLA OSC-1, 2, 3
D5526 1S1555 V. OSC-SW
Q5501, 5502 2SA678 V. AMP-1, 2 (R)
Q5503 2SC1670 V. DRIVE (R)
Q5504 2SD478 V. OUT-1 (R)
Q5505 2SB568 V. OUT-2 (R)
Q5506 2SA678 V. PROTECT BUFF (R)
Q5507, 5508 2SC1364 V. CENT-1, 2 (R)
Q5509 2SA678 V. CENT-3 (R)
Q5510 2SC1475 V. CENT-OUT (R)
Q5546 2SC1475 V. PARABOLA-1 OUT
Q5521, 5522 2SA678 V. AMP-1, 2 (B)
Q5523 2SC1670 V. DRIVE (B)
Q5524 2SD478 V. OUT-1 (B)
Q5525 2SB568 V. OUT-2 (B)
Q5526 2SA678 V. PROTECT-BUFF (B)
Q5527, 5528 2SC1364 V. CENT-1, 2 (B)
D5515, 5516 1S1555 V. PROTECT SW-1, 2 (B)
D5508, 5509 1S1555 V. PROTECT SW-1, 2 (G)
D5517 1S1555 V. PULSE RECT (B)
D5518 1S1555 V. PROTECT SW-3 (B)
D5510 1S155 V. PULSE RECT
Q5511, 5512 2SA678 V. AMP-1, 2 (G)
Q5513 2SC1670 V. DRIVE (G)
Q5514 2SD478 V. OUT-1 (G)
Q5515 2SB568 V. OUT-2 (G)
D5504 1S155 V. PROTECT SW 3
D5501, 5502 1S1555 V. PROTECT SW1, 2 (R)
D5503 1S1555 V. PULSE RECT (R)
(B)
(G)
V. SIZE
V. LIN
V. SKEW
V. SIZE (R)
RV5507 500
RV5508 500
RV5509 1k
RV5503 500
RV5504 500
RV5505 1k
RV5501 470
C5507 10/25V
C5504 1000/16V
C5505 470/25V
R5609 15k
R5607 10k
R5608 10k
R5605 100k
R5610 4.7k
R5606 1k
C5535 100 25V
3.6V
3.5V
4.2V
C5502 110 160V
C5503 110 160V
C5501 1470 25V
C5536 0.0047
C5537 0.0047
C5538 0.0022
C5539 100p
R5611 15k
R5612 5.1k
R5613 33k
R5614 12k
R5615 4.7k (±1%)
R5616 8.2k (±1%)
R5617 10k (±1%)
R5618 10k (±1%)
R5619 4.7k
R5620 1k
R5621 120k (1/2W)
R5622 120k (1/2W)
R5623 220 (1/2W)
C5540 47 25V
C5541 4.7 25V
R5652 120
R5633 2.7k
R5634 2.7k
R5635 3.9k
R5636 1k
R5637 1.5k (1/2W)
C5545 0.001
R5638 470 (2W)
R5639 27 (1/8W)
R5640 180k
R5641 180k
R5644 8.2k
C5547 0.001
C5548 0.022
C5546 100 25V
R5642 15k
R5643 270
R5645 8.2k
R5646 470 (2W)
R5647 27 (1/8W)
0V
10.4V
10.5V
8.9V
10V
8.3V
14V
7.8V
0.03V
16.8V
13.2V
13.3V
7.2V
7V
6.8V
12.9V
12.2V
R5569 27 (1/8W)
R5571 27 (1/8W)
R5573 27 (1/8W)
R5568 1.8k (±1%)
R5570 5.6k (±1%)
R5572 12k (±1%)
R5574 43k (±1%)
R5536 27 (1/8W)
R5538 27 (1/8W)
R5540 27 (1/8W)
R5535 1.8k (±1%)
R5537 5.6k (±1%)
R5539 12k (±1%)
R5541 43k (±1%)
R5502 27 (1/8W)
R5504 27 (1/8W)
R5501 1.8k (±1%)
R5503 5.6k (±1%)
R5505 270 (±1%)
R5506 270 (±1%)
R5507 12k (±1%)
R5508 43k (±1%)
R5575 120k (1/2W)
R5576 120k (1/2W)
R5577 6.8k
R5578 680 (1/8W)
R5579 15k
R5580 15k
R5581 27k (3W)
R5582 27k (3W)
C5526 100p
C5528 0.033
C5552 0.022 200V
R5583 22k
C5527 1/160V
R5584 4.7k
D5517
C5529 1 50V
R5585 180k
R5587 8.2k (1W)
R5588 51k
R5589 100k
R5590 100k
C5532
18.1V
17.6V
6V
5V
0.5V
36.5V
36.3V
6.2V
7V
R5542 120k (1/2W)
R5543 120k (1/2W)
R5544 6.8k
R5545 680 (1/8W)
R5546 15k
R5547 15k
R5548 27k (3W)
R5549 27k (3W)
C5517 100p
C5519 0.033
C5551 0.022 200V
R5550 22k
C5518 1/160V
R5551 4.7k
C5520 1 50V
R5552 180k
R5554 8.2k (1W)
R5555 51k
R5556 100k
R5557 100k
C5523
R5509 120k (1/2W)
R5510 120k (1/2W)
R5511 6.8k
R5512 680 (1/8W)
R5513 15k
R5514 15k
R5515 27k (3W)
R5516 27k (3W)
C5508 100p
C5510 0.033
C5550 0.022 200V
R5517 22k
C5509 1/160V
R5518 4.7k
C5511 1 50V
R5519 180k
R5521 8.2k (1W)
R5522 51k
R5523 100k
R5524 100k
C5514
D5501
D5502
D5503
D5508
D5509
D5510
D5515
D5516
Q5501
Q5502
Q5503
Q5504
Q5505
Q5506
Q5511
Q5512
Q5513
Q5514
Q5515
Q5516
Q5521
Q5522
Q5523
Q5524
Q5525
Q5526
Q5531
Q5532
Q5533
Q5534
Q5535
Q5540
Q5541
Q5542
Q5543
Q5544
Q5545
Q5546

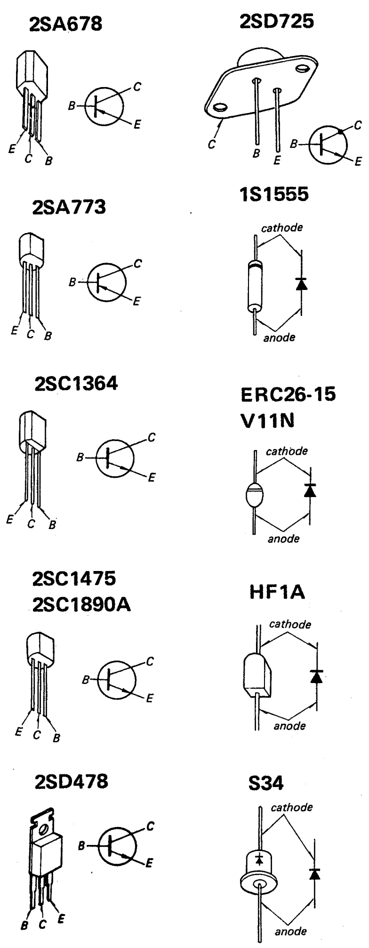
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

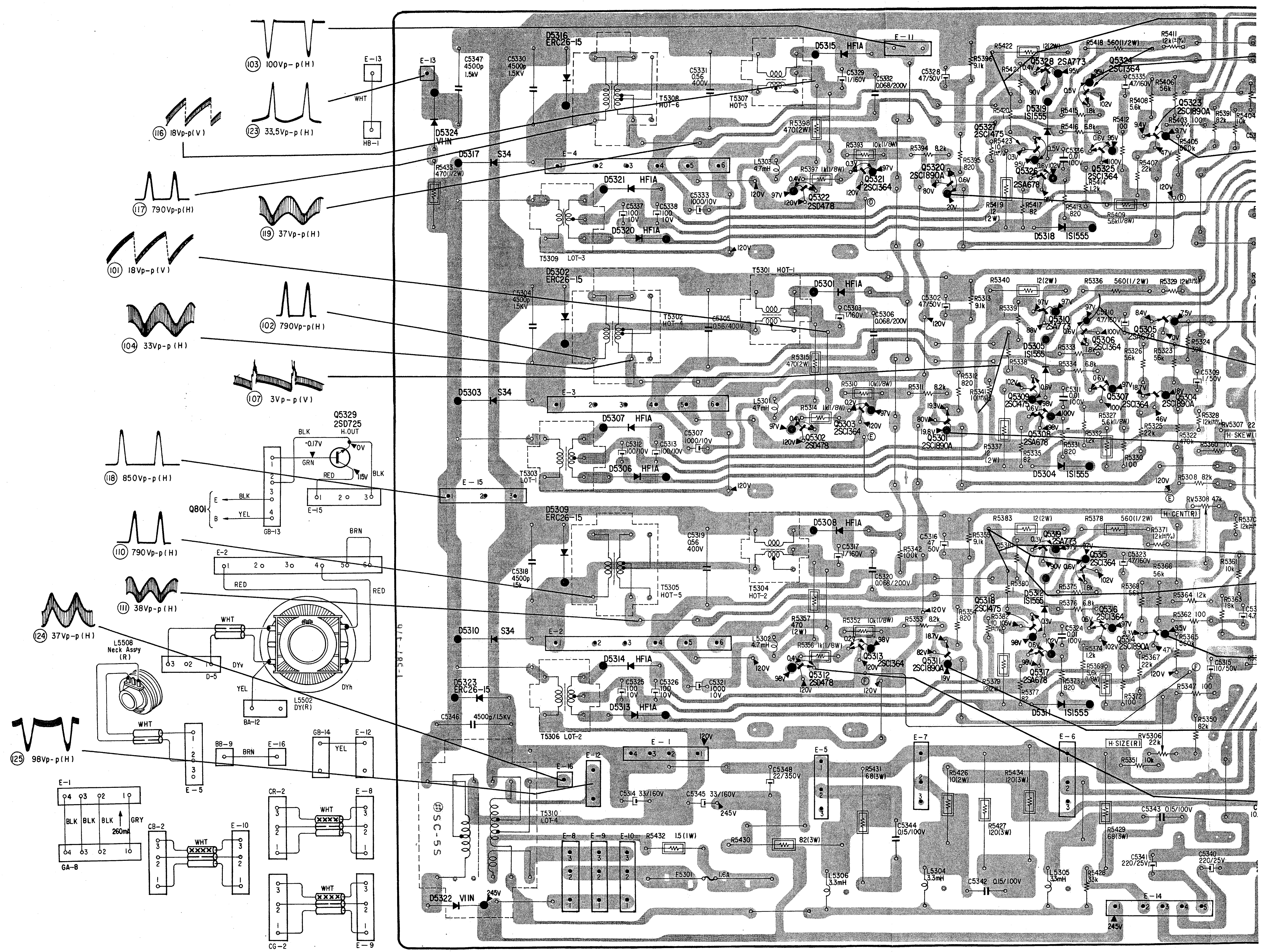
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


D
E
F
G
H
I
J
K
1
2
3
4
5
D
A-1340-247-A
(V. OSC, V. CENT,
V. OUT, V. PARABOLA)
(77) 0.27V p-p (V)
(78) 106V p-p (V)
(79) 2.4V p-p (V)
(80) 2.4V p-p (V)
(76) 2.4V p-p (V)
(81) 2.4V p-p (V)
(96) 3V p-p (V)
(82) 0.27V p-p (V)
(85) 2.4V p-p (V)
(90) 2.4V p-p (V)
(86) 2.4V p-p (V)
(87) 0.27V p-p (V)
(88) 86V p-p (V)
(83) 112V p-p (V)
(89) 2.4V p-p (V)
(84) 2.4V p-p (V)
V. SIZE
V. LIN
V. SKEW
V. SIZE (R)
V. CENT (B)
V. CENT (G)
V. CENT (R)
Q5521, 5522 2SA678 V. AMP-1, 2 (B)
Q5523 2SC1670 V. DRIVE (B)
Q5524 2SD478 V. OUT-1 (B)
Q5525 2SB568 V. OUT-2 (B)
Q5526 2SA678 V. PROTECT-BUFF (B)
Q5527, 5528 2SC1364 V. CENT-1, 2 (B)
Q5529 2SA678 V. CENT-3 (B)
Q5530 2SC1475 V. CENT-OUT (B)
D5520 EQA01-25R V. OUT LIMITER (B)
D5519 1S1555 V. CENT PROTECT (B)
D5522 EQA01-05S V. CENT ZENER
D5523 EQA01-06S ZENER LIMITER
D5513 EQA01-25R V. OUT LIMITER (G)
D5514 EQA01-08S V. CENT LIMITER (G)
D5515, 5516 1S1555 V. PROTECT SW-1, 2 (B)
D5508, 5509 1S1555 V. PROTECT SW-1, 2 (G)
D5517 1S1555 V. PULSE RECT (B)
D5518 1S1555 V. PROTECT SW-3 (B)
D5521 EQA01-08S V. CENT LIMITER (B)
Q5520 2SC1475 V. CENT OUT (G)
D5510 1S1555 V. PULSE RECT (G)
D5511 1S1555 V. PROTECT SW-3 (G)
Q5511, 5512 2SA678 V. AMP-1, 2 (G)
Q5513 2SC1670 V. DRIVE (G)
Q5514 2SD478 V. OUT-1 (G)
Q5515 2SB568 V. OUT-2 (G)
Q5516 2SA678 V. PROTECT BUFF (G)
Q5517, 5518 2SC1364 V. CENT-1, 2 (G)
Q5519 2SA678 V. CENT-3 (G)
D5504 1S1555 V. PROTECT SW 3
D5512 1S1555 V. CENT PROTECT (G)
D5506 EQA01-25R V. OUT LIMITER (R)
D5507 EQA01-08S V. CENT LIMITER (R)
D5501, 5502 1S1555 V. PROTECT SW1, 2 (R)
D5503 1S1555 V. PULSE RECT (R)
D5505 1S1555 V. CENT PROTECT (R)
Q5501, 5502 2SA678 V. AMP-1, 2 (R)
Q5503 2SC1670 V. DRIVE (R)
Q5504 2SD478 V. OUT-1 (R)
Q5505 2SB568 V. OUT-2 (R)
Q5506 2SA678 V. PROTECT BUFF (R)
Q5507, 5508 2SC1364 V. CENT-1, 2 (R)
Q5509 2SA678 V. CENT-3 (R)
Q5510 2SC1475 V. CENT-OUT (R)
Q5546 2SC1475 V. PARABOLA-1 OUT
L5504 DYv (B)
L5503 DYv (G)
L5502 DYv (R)
D-7
D-6
D-5
TO BA-12
245V
120V
18V
36.3V
RV5510 5k
RV5506 5k
RV5502 4.7k
RV5507 500
RV5508 500
RV5509 1k
RV5503 500
RV5504 500
RV5505 1k
RV5501 470
C5507 10/25V
C5504 1000/16V
C5505 470/25V

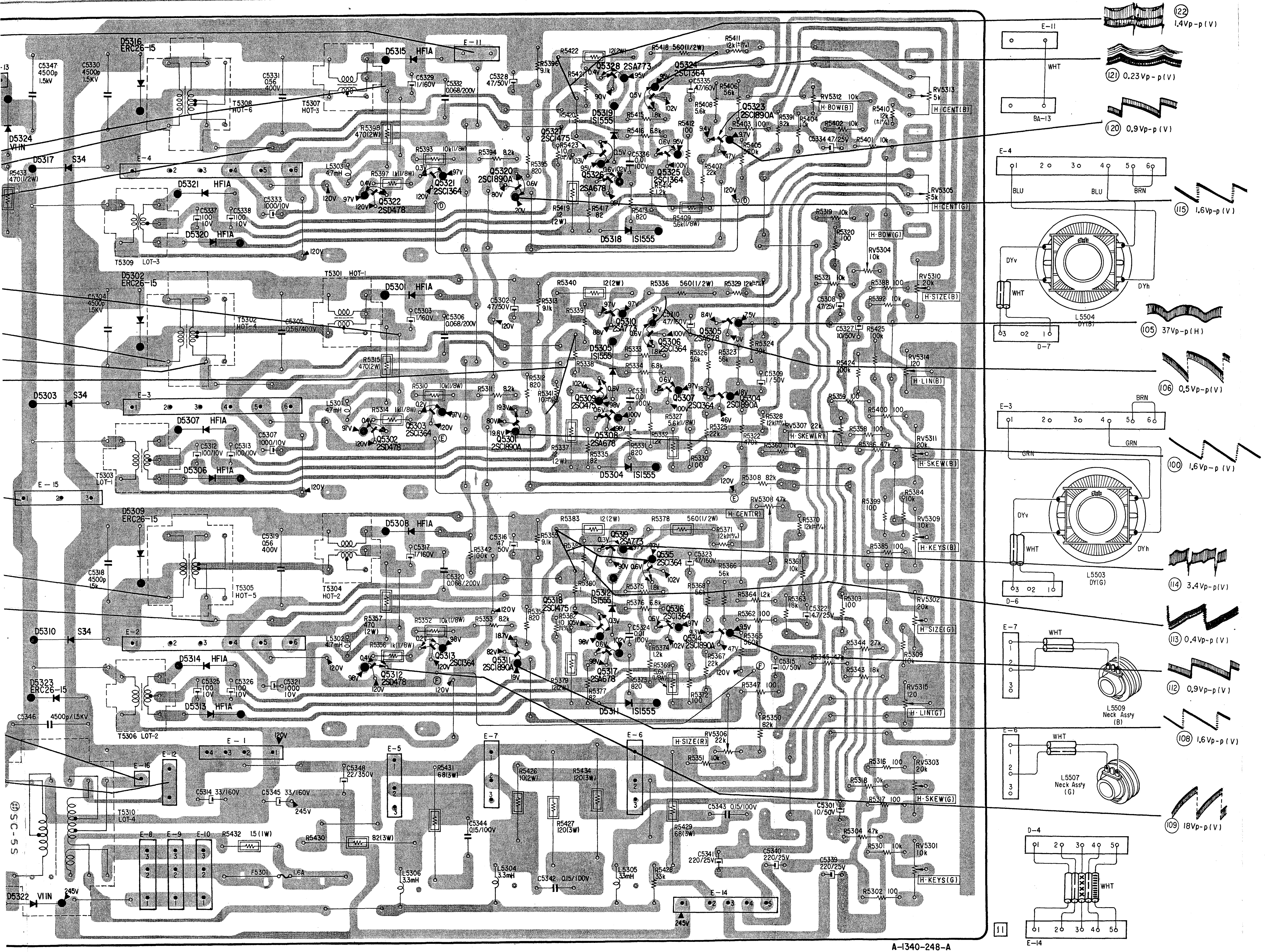
E

MOUNTING DIAGRAM
– E Board –


2SA678
2SD725
2SA773
1S1555
2SC1364
ERC26-15
V11N
2SC1475
2SC1890A
HF1A
2SD478
S34
cathode
anode
B
C
E


(103) 100Vp-p(H)
(123) 33.5Vp-p(H)
(116) 18Vp-p(V)
(117) 790Vp-p(H)
(119) 37Vp-p(H)
(101) 18Vp-p(V)
(102) 790Vp-p(H)
(104) 33Vp-p(H)
(107) 3Vp-p(V)
(118) 850Vp-p(H)
(110) 790Vp-p(H)
(111) 38Vp-p(H)
(124) 37Vp-p(H)
(125) 98Vp-p(H)
Q5329 2SD725 H.OUT
Q801
L5508 Neck Assy (R)
L5502 DY(R)
E-1 E-2 E-3 E-4 E-5 E-6 E-7 E-8 E-9 E-10 E-11 E-12 E-13 E-14 E-15 E-16
GB-13 GB-14 GA-8 CB-2 CR-2 CG-2 BB-9 BA-12 D-5 HB-1
T5310 LOT-4
T5309 LOT-3
T5303 LOT-1
T5306 LOT-2
T5301 HOT-1
T5302 HOT-4
T5304 HOT-2
T5305 HOT-5
T5307 HOT-3
T5308 HOT-6
D5316 ERC26-15
D5302 ERC26-15
D5309 ERC26-15
D5323 ERC26-15
D5324 V11N
D5322 V11N
H·SKEW(R)
H·CENT(R)
H·SIZE(R)
F5301 1.6A
@SC-55

● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.



D5316
ERC26-15
D5315 HF1A
E-11
C5347 4500p 1.5kV
C5330 4500p 1.5KV
C5331 0.56 400V
C5329 1/160V
C5332 0.068/200V
C5328 47/50V
T5308 HOT-6
T5307 HOT-3
R5398 470(2W)
D5324 V11N
D5317 S34
E-4
R5433 470(1/2W)
D5321 HF1A
L5303 47mH
R5393 10k(1/8W)
R5394 8.2k
R5395 820
R5397 1k(1/8W)
Q5320 2SC1890A
Q5321 2SC1364
Q5322 2SD478
C5333 1000/10V
C5337 100 10V
C5338 100 10V
D5320 HF1A
T5309 LOT-3
R5422
R5396 9.1k
Q5328 2SA773
Q5324 2SC1364
R5418 560(1/2W)
R5411 12k(±1%)
R5420
D5319 1S1555
Q5327 2SC1475
Q5326 2SA678
R5423 10
C5335 47/160V
C5336 0.01 100V
Q5325 2SC1364
R5415
R5416 6.8k
R5412 100
R5414 1.2k
R5417 82
R5419 12 (2W)
R5413 820
R5409 56k(1/8W)
D5318 1S1555
R5406 56k
R5408 5.6k
Q5323 2SC1890A
R5403 100
R5407 22k
R5405 820k
RV5312 10k
H·BOW(B)
R5391 82k
R5404 10k
R5402 10k
C5334 47/25V
R5401 10k
R5410 12k (±1%)
RV5313 5k
H·CENT(B)
RV5305 5k
H·CENT(G)
R5319 10k
R5320 100
H·BOW(G)
RV5304 10k
D5302 ERC26-15
T5301 HOT-1
D5301 HF1A
C5304 4500p 1.5KV
T5302 HOT-4
C5305 0.56/400V
C5303 1/160V
C5306 0.068/200V
C5302 47/50V
R5340
R5313 9.1k
R5336 560(1/2W)
R5329 12k(±1%)
Q5310 2SA773
Q5305 2SC1364
Q5306 2SC1364
D5305 1S1555
R5315 470(2W)
D5303 S34
E-3
L5301 47mH
R5310 10k(1/8W)
R5311
R5312 820
R5314 1k(1/8W)
Q5309 2SC1475
Q5303 2SC1364
Q5302 2SD478
Q5301 2SC1890A
Q5308 2SA678
Q5307 2SC1364
Q5304 2SC1890A
D5307 HF1A
C5307 1000/10V
C5312 100/10V
C5313 100/10V
D5306 HF1A
T5303 LOT-1
E-15
R5335 82
R5331 820
R5332 1.2k
R5330 100
D5304 1S1555
R5327 5.6k(1/8W)
R5325 22k
R5322 470k
R5328 12k(±1%)
RV5307 22k
H·SKEW(R)
R5360 10k
R5308 82k
RV5308 47k
R5321 10k
R5388 100
R5392 10k
RV5310 20k
H·SIZE(B)
C5308 47/25V
C5327 10/50V
R5425 100k
R5424 100k
RV5314 120
H·LIN(B)
C5309 1/50V
R5359 100
R5400 100
R5358 100
R5386 47k
RV5311 20k
H·SKEW(B)
R5399 100
R5384 10k
RV5309 10k
R5370 12k(±1%)
R5385 100
H·KEYS(B)
H·CENT(R)
D5309 ERC26-15
D5308 HF1A
C5319 0.56 400V
C5316 47 50V
C5317 1/160V
R5342 100k
C5320 0.068/200V
C5318 4500p 1.5k
T5305 HOT-5
T5304 HOT-2
R5383 12(2W)
R5355 9.1k
R5378 560(1/2W)
R5371 12k(±1%)
Q5319 2SA773
Q5315 2SC1364
C5323 47/160V
R5366 56k
D5312 1S1555
Q5318 2SC1475
R5380
R5368 56k
R5364 12k
R5363 18k
C5322 47/25V
R5303 100
RV5302 20k
H·SIZE(G)
R5362 100
Q5316 2SC1364
Q5314 2SC1890A
R5365 560k
R5357 470 (2W)
R5352 10k(1/8W)
R5353 82k
R5354 820
D5310 S34
E-2
L5302 47mH
R5356 1k(1/8W)
Q5313 2SC1364
Q5312 2SD478
Q5311 2SC1890A
Q5317 2SA678
C5324 0.01 100V
R5374 1.2k
R5369
R5367 22k
C5315 10/50V
R5345 47k
R5344 27k
R5343 18k
R5309 10k
RV5315 120
H·LIN(G)
R5379 12(2W)
R5377 82
R5373 820
R5372 100
D5311 1S1555
R5347 100
R5350 82k
D5314 HF1A
C5325 100 10V
C5326 100 10V
C5321 1000 10V
D5313 HF1A
D5323 ERC26-15
C5346 4500p/1.5KV
T5306 LOT-2
E-1
E-16
E-12
E-5
E-7
E-6
C5348 22/350V
R5431 68(3W)
R5426 10(2W)
R5434 120(3W)
H·SIZE(R)
RV5306 22k
R5351 10k
R5316 100
RV5303 20k
R5318 10k
R5317 100
H·SKEW(G)
C5314 33/160V
C5345 33/160V
245V
T5310 LOT-4
C5344 0.15/100V
R5427 120(3W)
R5429 68(3W)
C5343 0.15/100V
C5301 10/50V
R5304 47k
R5301 10k
RV5301 10k
E-8 E-9 E-10
R5432 1.5(1W)
R5430
82(3W)
F5301 1.6A
L5306 3.3mH
L5304 3.3mH
C5342 0.15/100V
L5305 3.3mH
R5428 33k
C5341 220/25V
C5340 220/25V
C5339 220/25V
R5302 100
H·KEYS(G)
D5322 V11N
245V
E-14
SC-55
E-11
WHT
BA-13
(122) 1.4Vp-p(V)
(121) 0.23Vp-p(V)
(120) 0.9Vp-p(V)
E-4
BLU
BLU
BRN
(115) 1.6Vp-p(V)
DYv
WHT
DYh
L5504 DY(B)
D-7
(105) 37Vp-p(H)
(106) 0.5Vp-p(V)
E-3
BRN
GRN
GRN
(100) 1.6Vp-p(V)
DYv
WHT
DYh
L5503 DY(G)
D-6
(114) 3.4Vp-p(V)
(113) 0.4Vp-p(V)
E-7
WHT
(112) 0.9Vp-p(V)
L5509 Neck Ass'y (B)
(108) 1.6Vp-p(V)
E-6
WHT
L5507 Neck Ass'y (G)
(109) 18Vp-p(V)
D-4
WHT
E-14

A-1340-248-A

11

Q	D	ADJ
	5315	
5328	5316	
5324		
		RV5313
	5324	RV5312
	5319	
5323		
5327		
5325		
5321		
5320,5326	5317	
5322		
	5321	
		RV5305
	5318	
	5320	
		RV5304
		RV5310
	5301	
5310		
5305	5302	
5306		
	5305	
5309		RV5314
5307 5304		
5301 ,5308	5307	
5303	5303	
5302,5301		RV5307
5329		
		RV5311
	5304	
	5306	
		RV5308
	5308	
5319	5309	RV5309
5315		
	5312	
5318,5316		RV5302
5314,5311		
5313,5317		
	5310	
5313		
5312	5314	
	5323	RV5315
	5313,5311	
		RV5306
		RV5303
		RV5301
	5322	
Q	D	ADJ

E

H. CENT
H. OUT
PIN AMP
PIN OUT

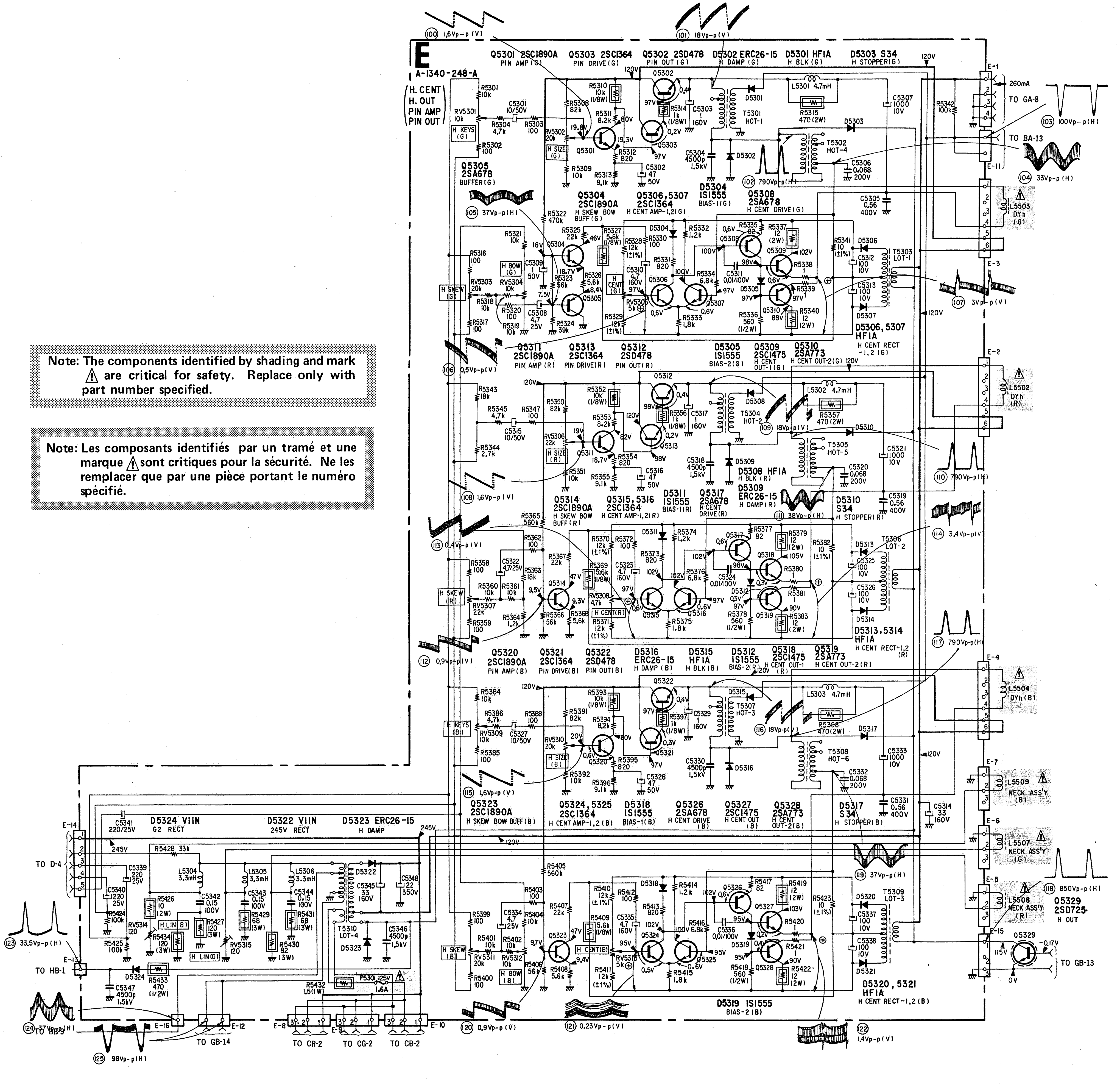
● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

E

SCHEMATIC DIAGRAM
– E Board –

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

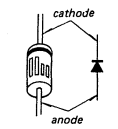

E
A-1340-248-A
H. CENT
H. OUT
PIN AMP
PIN OUT
Q5301 2SC1890A PIN AMP (G)
Q5303 2SC1364 PIN DRIVE (G)
Q5302 2SD478 PIN OUT (G)
D5302 ERC26-15 H DAMP (G)
D5301 HF1A H BLK (G)
D5303 S34 H STOPPER (G)
Q5305 2SA678 BUFFER (G)
Q5304 2SC1890A H SKEW BOW BUFF (G)
Q5306, 5307 2SC1364 H CENT AMP-1, 2 (G)
D5304 1S1555 BIAS-1 (G)
Q5308 2SA678 H CENT DRIVE (G)
D5305 1S1555 BIAS-2 (G)
Q5309 2SC1475 H CENT OUT-1 (G)
Q5310 2SA773 H CENT OUT-2 (G)
D5306, 5307 HF1A H CENT RECT-1, 2 (G)
Q5311 2SC1890A PIN AMP (R)
Q5313 2SC1364 PIN DRIVE (R)
Q5312 2SD478 PIN OUT (R)
D5308 HF1A H BLK (R)
D5309 ERC26-15 H DAMP (R)
D5310 S34 H STOPPER (R)
Q5314 2SC1890A H SKEW BOW BUFF (R)
Q5315, 5316 2SC1364 H CENT AMP-1, 2 (R)
D5311 1S1555 BIAS-1 (R)
Q5317 2SA678 H CENT DRIVE (R)
D5313, 5314 HF1A H CENT RECT-1, 2 (R)
Q5320 2SC1890A PIN AMP (B)
Q5321 2SC1364 PIN DRIVE (B)
Q5322 2SD478 PIN OUT (B)
D5316 ERC26-15 H DAMP (B)
D5315 HF1A H BLK (B)
D5312 1S1555 BIAS-2 (R)
Q5318 2SC1475 H CENT OUT-1 (R)
Q5319 2SA773 H CENT OUT-2 (R)
Q5323 2SC1890A H SKEW BOW BUFF (B)
Q5324, 5325 2SC1364 H CENT AMP-1, 2 (B)
D5318 1S1555 BIAS-1 (B)
Q5326 2SA678 H CENT DRIVE (B)
Q5327 2SC1475 H CENT OUT (B)
Q5328 2SA773 H CENT OUT-2 (B)
D5317 S34 H STOPPER (B)
D5319 1S1555 BIAS-2 (B)
D5320, 5321 HF1A H CENT RECT-1, 2 (B)
Q5329 2SD725 H OUT
D5324 V11N G2 RECT
D5322 V11N 245V RECT
D5323 ERC26-15 H DAMP
T5301 HOT-1
T5302 HOT-4
T5303 LOT-1
T5304 HOT-2
T5305 HOT-5
T5306 LOT-2
T5307 HOT-3
T5308 HOT-6
T5309 LOT-3
T5310 LOT-4
L5301 4.7mH
L5302 4.7mH
L5303 4.7mH
L5304 3.3mH
L5305 3.3mH
L5306 3.3mH
L5503 DYh (G)
L5502 DYh (R)
L5504 DYh (B)
L5509 NECK ASS'Y (B)
L5507 NECK ASS'Y (G)
L5508 NECK ASS'Y (R)
F5301 125V 1.6A
TO GA-8
TO BA-13
TO GB-13
TO D-4
TO HB-1
TO GB-14
TO CR-2
TO CG-2
TO CB-2
260mA
120V
245V
⑩⓪ 1.6Vp-p (V)
⑩① 18Vp-p (V)
⑩② 790Vp-p (H)
⑩③ 100Vp-p (H)
⑩④ 33Vp-p (H)
⑩⑤ 37Vp-p (H)
⑩⑥ 0.5Vp-p (V)
⑩⑦ 3Vp-p (V)
⑩⑧ 1.6Vp-p (V)
⑩⑨ 18Vp-p (V)
⑪⓪ 790Vp-p (H)
⑪① 38Vp-p (H)
⑪② 0.9Vp-p (V)
⑪③ 0.4Vp-p (V)
⑪④ 3.4Vp-p (V)
⑪⑤ 1.6Vp-p (V)
⑪⑥ 18Vp-p (V)
⑪⑦ 790Vp-p (H)
⑪⑧ 850Vp-p (H)
⑪⑨ 37Vp-p (H)
⑫⓪ 0.9Vp-p (V)
⑫① 0.23Vp-p (V)
⑫② 1.4Vp-p (V)
⑫③ 33.5Vp-p (H)
⑫④ 37Vp-p (H)
⑫⑤ 98Vp-p (H)

E

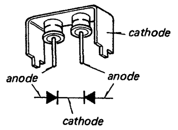
[LINE RECT] **F** **F**

MOUNTING DIAGRAM
— F Board —

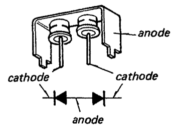
SIB01-02


cathode
anode

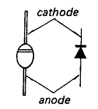
S5151

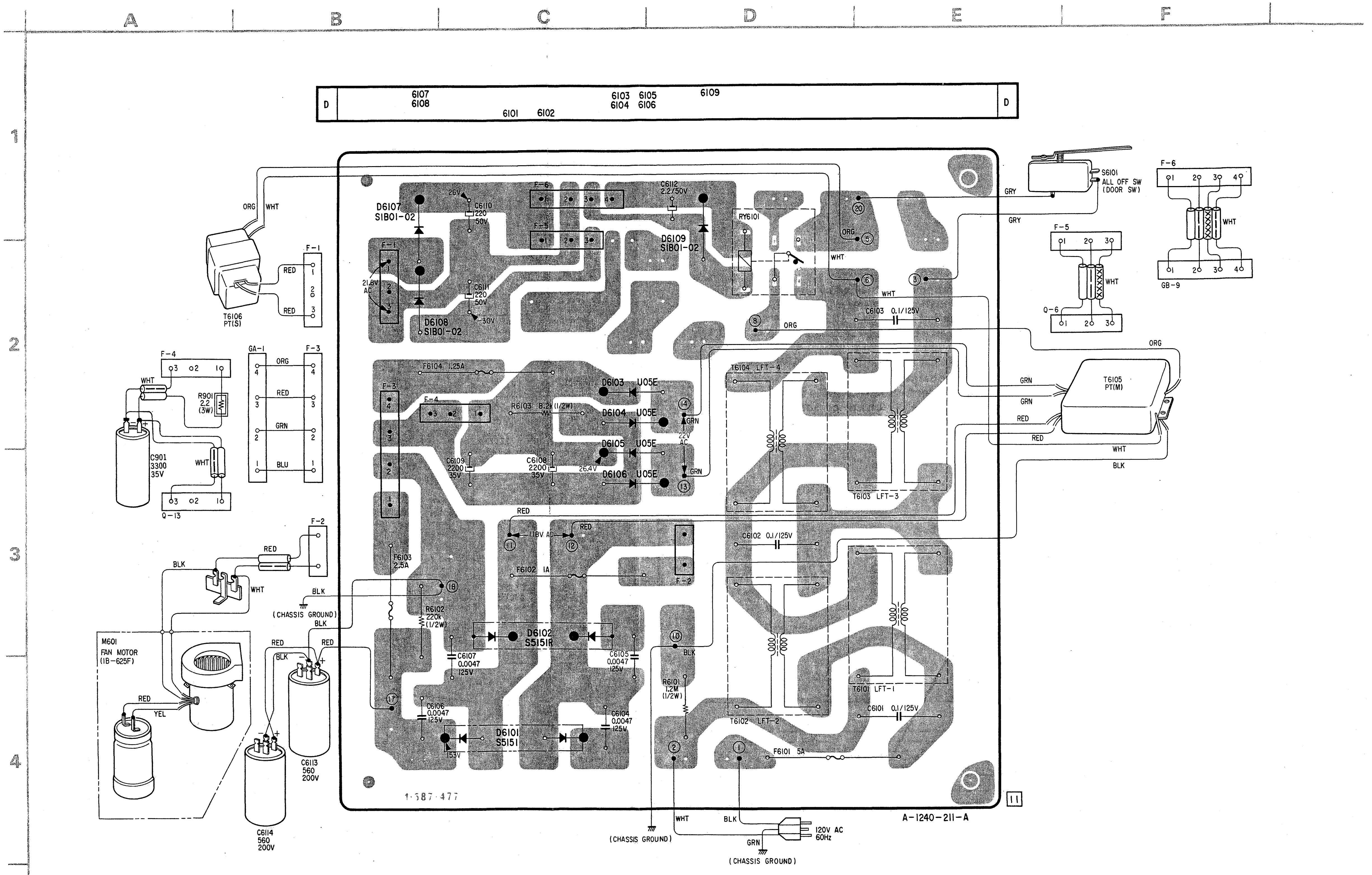

cathode
anode
anode
cathode

S5151R


anode
cathode
cathode
anode

U05E


cathode
anode

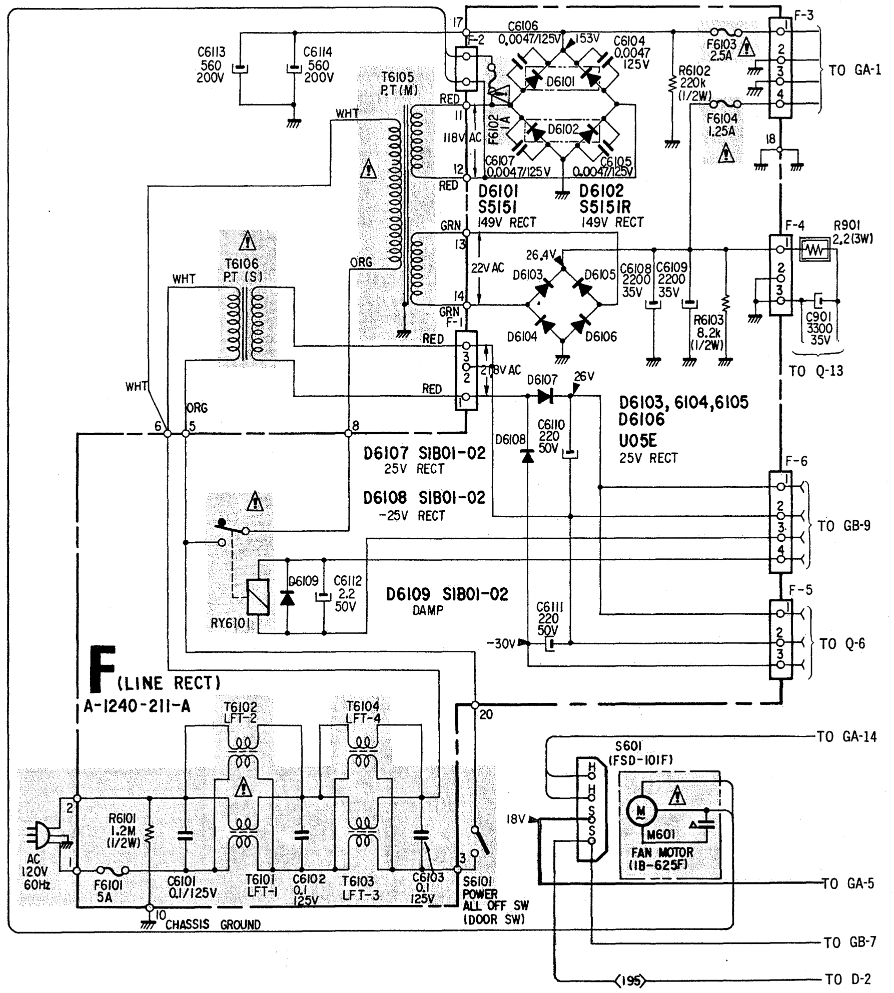

A
B
C
D
E
F
1
2
3
4
5
D
6107
6108
6101
6102
6103
6104
6105
6106
6109
D
D6107
SIB01-02
26V
C6110
220
50V
F-6
C6112
2.2/50V
D6109
SIB01-02
RY6101
F-5
F-1
21.8V AC
C6111
220
50V
-30V
D6108
SIB01-02
ORG
WHT
RED
RED
T6106
PT(S)
F-1
S6101
ALL OFF SW
(DOOR SW)
GRY
GRY
F-6
WHT
F-5
WHT
Q-6
GB-9
ORG
WHT
WHT
C6103 0.1/125V
ORG
F-4
WHT
R901
2.2
(3W)
C901
3300
35V
WHT
Q-13
GA-1
ORG
RED
GRN
BLU
F-3
F6104 1.25A
F-3
F-4
R6103 8.2k(1/2W)
D6103 U05E
D6104 U05E
D6105 U05E
D6106 U05E
GRN
22V AC
GRN
C6109
2200
35V
C6108
2200
35V
26.4V
T6104 LFT-4
T6103 LFT-3
T6105
PT(M)
GRN
GRN
RED
RED
WHT
BLK
ORG
F-2
RED
BLK
WHT
BLK
(CHASSIS GROUND)
BLK
F6103
2.5A
RED
118V AC
RED
F6102 1A
F-2
C6102 0.1/125V
R6102
220k
(1/2W)
D6102
S5151R
C6107
0.0047
125V
C6105
0.0047
125V
BLK
R6101
1.2M
(1/2W)
M601
FAN MOTOR
(1B-625F)
RED
YEL
RED
BLK
RED
C6113
560
200V
C6114
560
200V
C6106
0.0047
125V
D6101
S5151
153V
C6104
0.0047
125V
T6101 LFT-1
C6101 0.1/125V
T6102 LFT-2
F6101 5A
1-587-477
11
A-1240-211-A
WHT
BLK
(CHASSIS GROUND)
GRN
(CHASSIS GROUND)
120V AC
60Hz

● ○— : parts extracted from the component side.
● ●— : parts extracted from the conductor side.

F **X** [SS AMP]

SCHEMATIC DIAGRAM

— F Board —

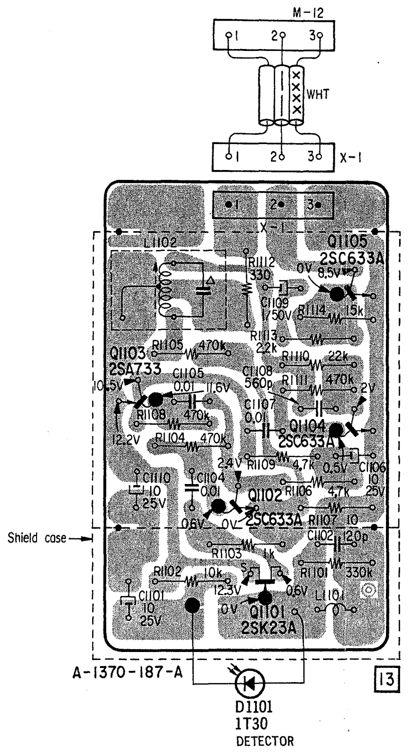

F (LINE RECT)
A-1240-211-A
C6113 560 200V
C6114 560 200V
T6105 P.T (M)
T6106 P.T (S)
F6102 1A
D6101
D6102
D6101 S5151 149V RECT
D6102 S5151R 149V RECT
C6106 0.0047/125V
C6104 0.0047 125V
C6107 0.0047/125V
C6105 0.0047/125V
F6103 2.5A
R6102 220k (1/2W)
F6104 1.25A
118V AC
22V AC
26.4V
27.8V AC
D6103
D6104
D6105
D6106
C6108 2200 35V
C6109 2200 35V
R6103 8.2k (1/2W)
R901 2.2(3W)
C901 3300 35V
D6107
26V
C6110 220 50V
D6108
D6103, 6104, 6105 D6106 U05E 25V RECT
D6107 S1B01-02 25V RECT
D6108 S1B01-02 -25V RECT
D6109 S1B01-02 DAMP
C6111 220 50V
-30V
C6112 2.2 50V
D6109
RY6101
TO GA-1
TO Q-13
TO GB-9
TO Q-6
TO GA-14
TO GA-5
TO GB-7
TO D-2
F-3
F-4
F-5
F-6
WHT
ORG
RED
GRN
T6102 LFT-2
T6104 LFT-4
R6101 1.2M (1/2W)
AC 120V 60Hz
F6101 5A
C6101 0.1/125V
T6101 LFT-1
C6102 0.1 125V
T6103 LFT-3
C6103 0.1 125V
S6101 POWER ALL OFF SW (DOOR SW)
CHASSIS GROUND
S601 (FSD-101F)
M601 FAN MOTOR (1B-625F)
18V
(195)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

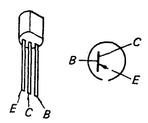
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MOUNTING DIAGRAM

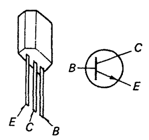
— X Board —


M-12
WHT
X-1
L1102
Q1105 2SC633A
R1112 330
C1109 1/50V
R1114 15k
R1113 22k
Q1103 2SA733
R1105 470k
C1105 0.01
R1108 470k
R1110 22k
R1111 470k
C1108 560p
C1107 0.01
Q1104 2SC633A
R1104 470k
R1109 4.7k
C1106
C1110 10 25V
C1104 0.01
Q1102 2SC633A
R1106
R1107
C1102 120p
R1103
R1101 330k
L1101
C1101 10 25V
Q1101 2SK23A
Shield case
A-1370-187-A
D1101 1T30 DETECTOR
13

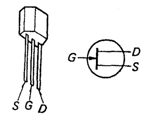
2SA733



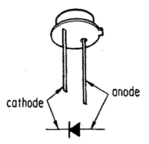
2SC633A



2SK23A



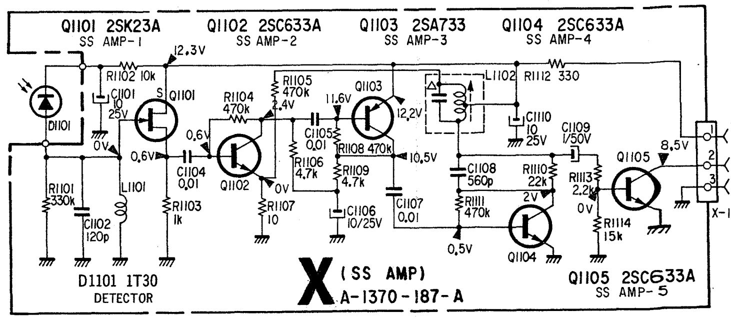
1T30


cathode
anode

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

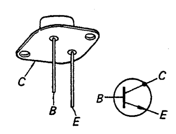
SCHEMATIC DIAGRAM

— X Board —

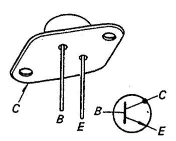

Q1101 2SK23A SS AMP-1
Q1102 2SC633A SS AMP-2
Q1103 2SA733 SS AMP-3
Q1104 2SC633A SS AMP-4
Q1105 2SC633A SS AMP-5
D1101
R1102 10k
C1101 10 25V
12.3V
0V
0.6V
R1101 330k
C1102 120p
L1101
R1103 1k
C1104 0.01
R1104 470k
R1105 470k
11.6V
2.4V
C1105 0.01
R1106 4.7k
R1107 10
R1108 470k
R1109 4.7k
C1106 10/25V
C1107 0.01
12.2V
10.5V
L1102
R1112 330
C1110 10 25V
C1109 1/50V
C1108 560p
R1110 22k
R1111 470k
2V
0.5V
R1113 2.2k
R1114 15k
8.5V
TO M-12
X-1
D1101 1T30 DETECTOR
X (SS AMP) A-1370-187-A

MOUNTING DIAGRAM
– GA Board –

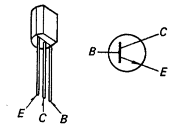
2SC867



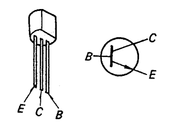
2SC1114



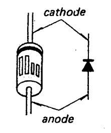
2SC1364



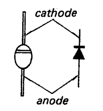
2SC1475
2SC1670



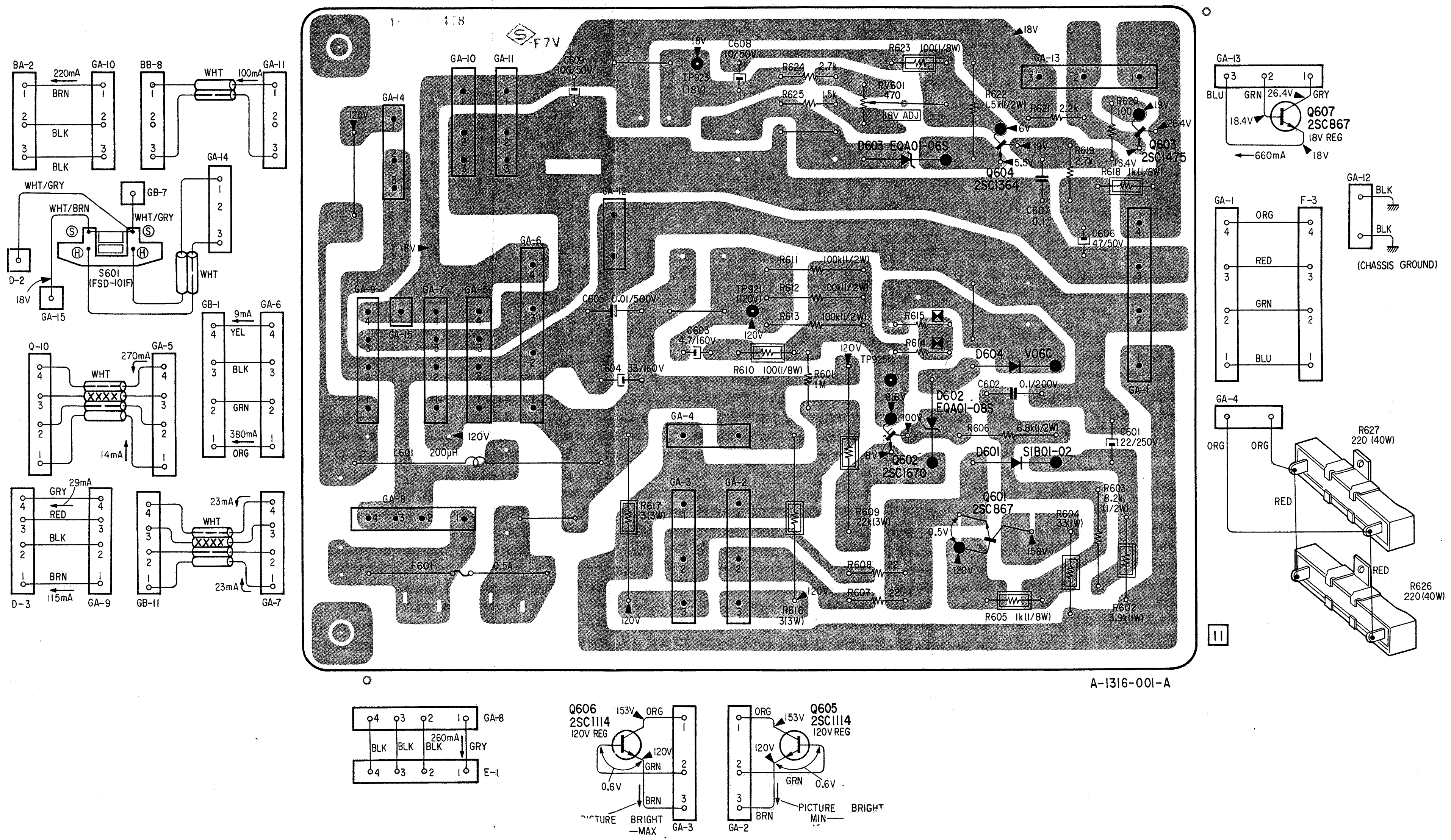
EQA01-06S
EQA01-08S
SIB01-02


cathode
anode

V06C


cathode
anode

	A	B	C	D	E	F	
Q			606	605 602 604 601	603	607	Q
D				603 602	604 601		D
ADJ				RV601			ADJ


BA-2
220mA
GA-10
BRN
BLK
BB-8
WHT
100mA
GA-11
GA-14
WHT/GRY
GB-7
WHT/BRN
WHT/GRY
S601
(FSD-101F)
WHT
D-2
18V
GA-15
GB-1
9mA
GA-6
YEL
BLK
GRN
380mA
ORG
Q-10
270mA
GA-5
14mA
29mA
GRY
RED
BLK
BRN
115mA
D-3
GA-9
GB-11
23mA
GA-7
F7V
GA-10
GA-11
C609 100/50V
18V
TP925 (18V)
C608 10/50V
R624 2.7k
R625 1.5k
RV601 470
18V ADJ
R623 100(1/8W)
R622 1.5k(1/2W)
R621 2.2k
R620 100
GA-13
D603 EQA01-06S
Q604 2SC1364
R619 2.7k
R618 1k(1/8W)
Q603 2SC1475
26.4V
18.4V
C607 0.1
C606 47/50V
GA-12
GA-6
GA-9
GA-7
GA-5
GA-15
C605 0.01/500V
TP921 (120V)
R611 100k(1/2W)
R612 100k(1/2W)
R613 100k(1/2W)
C603 4.7/160V
120V
R610 100(1/8W)
R601 1M
TP926
R615
R614
D604 V06C
C604 33/160V
GA-4
C602 0.1/200V
D602 EQA01-08S
R606 6.8k(1/2W)
C601 22/250V
Q602 2SC1670
D601 SIB01-02
L601 200μH
GA-8
F601 0.5A
GA-3
GA-2
R617 3(3W)
R609 22k(3W)
Q601 2SC867
R604 33(1W)
R603 8.2k (1/2W)
158V
R608 22
R607 22
R616 3(3W)
R605 1k(1/8W)
R602 3.9k(1W)
A-1316-001-A
GA-13
BLU
GRN
GRY
Q607 2SC867
18V REG
660mA
GA-1
ORG
F-3
RED
GRN
BLU
BLK
(CHASSIS GROUND)
GA-4
R627 220 (40W)
R626 220(40W)
GA-8
260mA
E-1
Q606 2SC1114 120V REG
153V
0.6V
PICTURE BRIGHT —MAX
GA-3
Q605 2SC1114 120V REG
PICTURE BRIGHT MIN—
GA-2

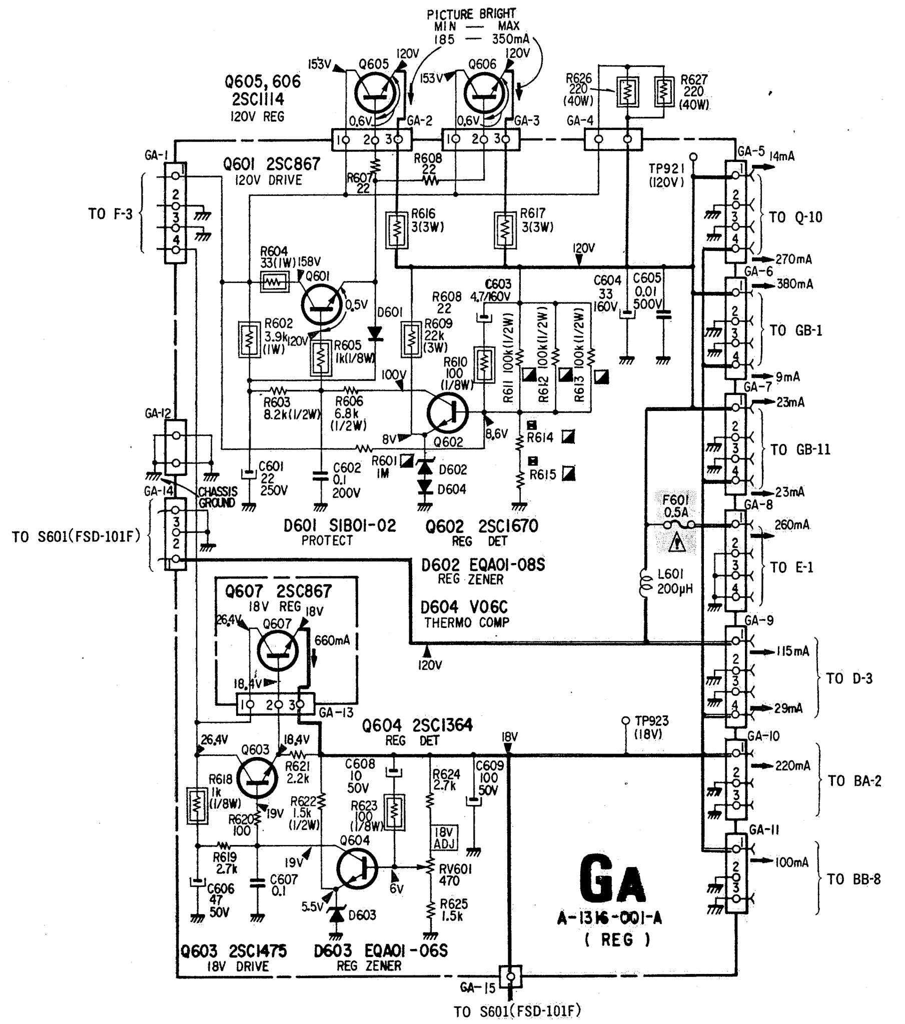
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

SCHEMATIC DIAGRAM
– GA Board –

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

GA

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.


A
B
C
1
2
3
4
PICTURE BRIGHT
MIN — MAX
185 — 350mA
Q605, 606
2SC1114
120V REG
153V
Q605
120V
Q606
R626
220
(40W)
R627
220
(40W)
0.6V
GA-2
GA-3
GA-4
GA-1
Q601 2SC867
120V DRIVE
R607
22
R608
22
TP921
(120V)
GA-5
14mA
TO F-3
R616
3(3W)
R617
3(3W)
TO Q-10
270mA
GA-6
380mA
R604
33(1W)
158V
Q601
0.5V
D601
R602
3.9k
(1W)
R605
1k(1/8W)
R608
22
C603
4.7/160V
R609
22k
(3W)
R610
100
(1/8W)
100V
R611 100k(1/2W)
R612 100k(1/2W)
R613 100k(1/2W)
C604
33
160V
C605
0.01
500V
TO GB-1
9mA
GA-7
23mA
R603
8.2k(1/2W)
R606
6.8k
(1/2W)
8V
Q602
8.6V
R614
R615
R601
1M
D602
D604
TO GB-11
23mA
GA-8
GA-12
GA-14
CHASSIS GROUND
C601
22
250V
C602
0.1
200V
F601
0.5A
260mA
TO S601(FSD-101F)
D601 SIB01-02
PROTECT
Q602 2SC1670
REG DET
D602 EQA01-08S
REG ZENER
L601
200μH
TO E-1
Q607 2SC867
18V REG
18V
26.4V
Q607
660mA
D604 V06C
THERMO COMP
GA-9
120V
115mA
18.4V
TO D-3
GA-13
29mA
26.4V
Q603
18.4V
Q604 2SC1364
REG DET
18V
TP923
(18V)
GA-10
220mA
R618
1k
(1/8W)
R621
2.2k
C608
10
50V
R624
2.7k
C609
100
50V
TO BA-2
R620
100
19V
R622
1.5k
(1/2W)
R623
100
(1/8W)
18V ADJ
GA-11
R619
2.7k
19V
Q604
RV601
470
100mA
C606
47
50V
C607
0.1
6V
TO BB-8
5.5V
D603
R625
1.5k
GA
A-1316-001-A
(REG)
Q603 2SC1475
18V DRIVE
D603 EQA01-06S
REG ZENER
GA-15
TO S601(FSD-101F)

Note:

- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ☒ and repeat the adjustment until the specified value is achieved.
(Refer to R614/R615 Adjustment.)
(On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

NOTES ON SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ⊡ : nonflammable resistor.
- ·△ : internal component.
- ▭ : panel designation.
- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ☒ and repeat the adjustment until the specified value is achieved.
(Refer to R6211/R6212 Adjustment, R6207/R6208 (On Page 28) (On Page 28)
Adjustment and R614/R615 Adjustment.)
(On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

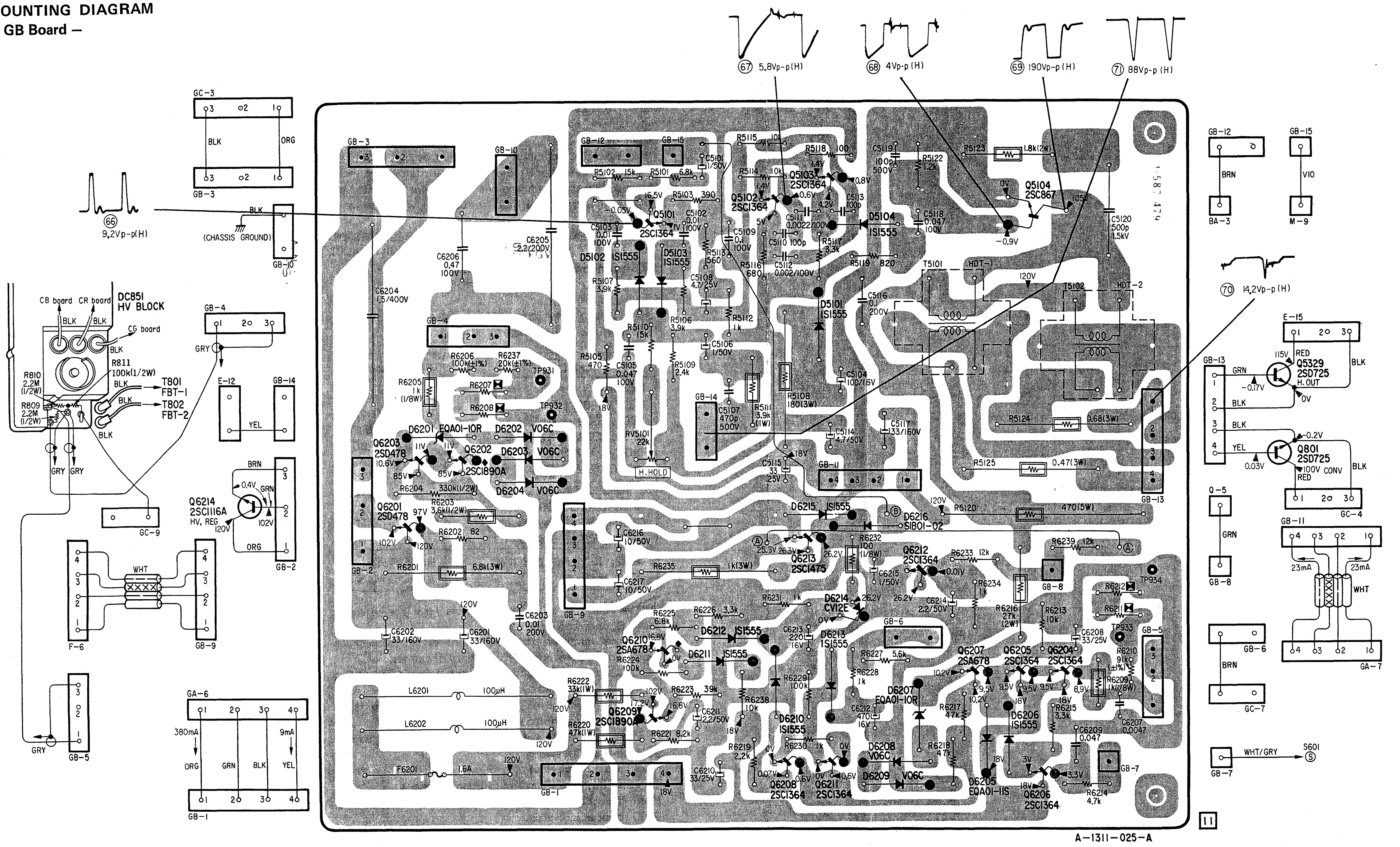
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Reference numbers of the I board differ from those indicated on the printed circuit board of the set.
Read the reference numbers of the I board by adding 2300 to those indicated.
- Reference numbers of the M board differ from those indicated on the printed circuit board of the set.
Read the reference numbers of the M board by adding 2000 to those indicated.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set.
Read the reference numbers of the Q board by adding 1000 to those indicated.

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- ⊘ : adjustable without removing cabinet.
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+ bus.
- ◆ : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in M board are taken with the channel selector button set to CH-2 (LOW BAND).
- Voltages in Q board are taken with the TV/VTR switch set to TV.
- Voltages in I board are taken with channel selector button set to CH-2 (LOW BAND).

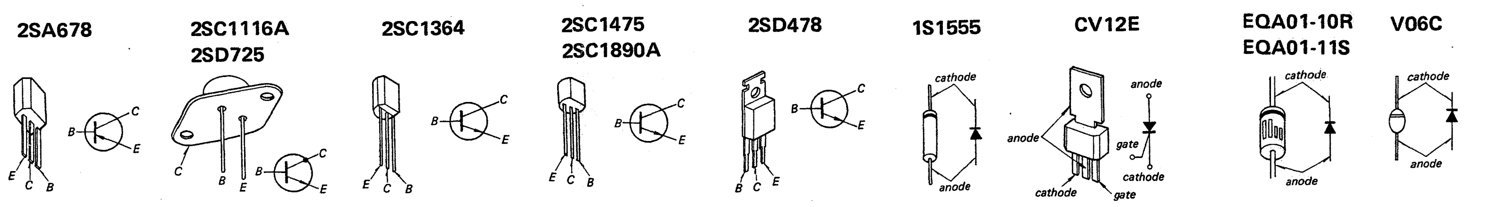
[H. OSC, H. DRIVE
HV REG, PROTECT]

GB **GB**

MOUNTING DIAGRAM
– GB Board –


A
B
C
D
E
F
G
1
2
3
4
⑥⑦ 5.8Vp-p(H)
⑥⑧ 4Vp-p(H)
⑥⑨ 190Vp-p(H)
⑦① 88Vp-p(H)
⑥⑥ 9.2Vp-p(H)
⑦⓪ 14.2Vp-p(H)
GC-3
GB-3
BLK
ORG
(CHASSIS GROUND)
DC851
HV BLOCK
CB board
CR board
CG board
R811
100k(1/2W)
R810
2.2M
(1/2W)
R809
2.2M
(1/2W)
T801
FBT-1
T802
FBT-2
GRY
GB-4
E-12
GB-14
YEL
Q6214
2SC1116A
HV. REG
GC-9
F-6
GB-9
GB-2
WHT
GA-6
380mA
9mA
GRN
GB-1
GB-5
GB-10
GB-12
GB-15
R5115
R5118
Q5103
2SC1364
Q5102
2SC1364
Q5101
2SC1364
Q5104
2SC867
D5104
1S1555
D5102
1S1555
D5103
1S1555
D5101
1S1555
T5101
T5102
HDT-1
HDT-2
C5120
500p
1.5kV
R5123
1.8k(2W)
R5124
0.68(3W)
R5125
0.47(3W)
R5120
470(5W)
RV5101
22k
H. HOLD
Q6201
2SD478
Q6203
2SD478
Q6202
2SC1890A
D6201
EQA01-10R
D6202
V06C
D6203
V06C
D6204
V06C
R6201
6.8k(3W)
R6235
1k(3W)
D6215
1S1555
D6216
S1B01-02
Q6213
2SC1475
Q6212
2SC1364
D6214
CV12E
D6212
1S1555
D6211
1S1555
D6213
1S1555
Q6210
2SA678
Q6209
2SC1890A
Q6207
2SA678
Q6205
2SC1364
Q6204
2SC1364
D6207
EQA01-10R
D6210
1S1555
D6206
1S1555
D6208
V06C
D6209
V06C
D6205
EQA01-11S
Q6208
2SC1364
Q6211
2SC1364
Q6206
2SC1364
L6201
100μH
L6202
100μH
F6201
1.6A
TP931
TP932
TP933
TP934
GB-11
GB-13
GB-6
GB-7
GB-8
GB-12
GB-15
BA-3
M-9
BRN
VIO
E-15
Q5329
2SD725
H. OUT
Q801
2SD725
CONV
RED
BLK
YEL
Q-5
GB-8
GB-11
GA-7
23mA
GC-4
GB-6
GC-7
GB-7
WHT/GRY
S601
A-1311-025-A
11

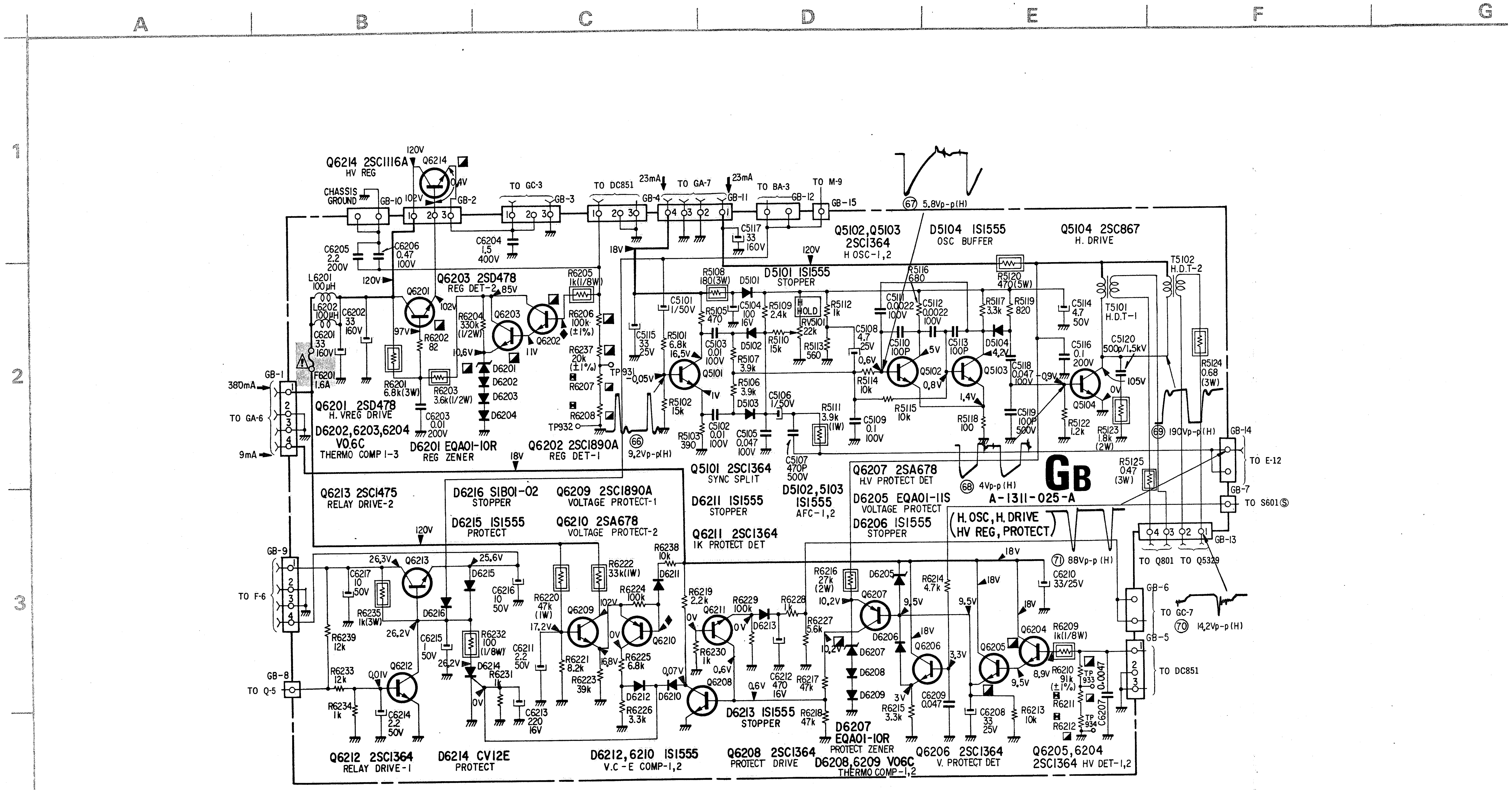
Q	D	ADJ
5103		
5104		
5102 5101	5104	
	5102 5103	
	5101	
5329		
6203 6202	6201 6202 6203 6204	RV5101
801		
6214 6201	6215 6216	
6213 6212		
	6214	
6210	6212	
6207 6205 6204	6211	
	6210 6213	
6209	6207 6205 6206	
6206 6208 6211	6208 6209	
Q	D	ADJ


2SA678
2SC1116A
2SD725
2SC1364
2SC1475
2SC1890A
2SD478
1S1555
CV12E
EQA01-10R
EQA01-11S
V06C
B
C
E
cathode
anode
gate

● ♦ : When this portion is touched with the probe of a VOM, the set will be turned off.

SCHEMATIC DIAGRAM

— GB Board —


A B C D E F G
1 2 3 4
Q6214 2SC1116A HV REG
120V
CHASSIS GROUND
GB-10 GB-2 GB-3 GB-4 GB-11 GB-12 GB-15
TO GC-3
TO DC851
TO GA-7
TO BA-3
TO M-9
23mA
(67) 5.8Vp-p(H)
Q5102,Q5103 2SC1364 H OSC-1,2
D5104 1S1555 OSC BUFFER
Q5104 2SC867 H. DRIVE
T5102 H.D.T-2
T5101 H.D.T-1
Q6203 2SD478 REG DET-2
Q6201 2SD478 H. VREG DRIVE
D6202,6203,6204 V06C THERMO COMP 1-3
D6201 EQA01-10R REG ZENER
Q6202 2SC1890A REG DET-1
(66) 9.2Vp-p(H)
D5101 1S1555 STOPPER
Q5101 2SC1364 SYNC SPLIT
D5102,5103 1S1555 AFC-1,2
Q6207 2SA678 H.V PROTECT DET
D6205 EQA01-11S VOLTAGE PROTECT
D6206 1S1555 STOPPER
(68) 4Vp-p(H)
(69) 190Vp-p(H)
GB
A-1311-025-A
(H. OSC, H. DRIVE HV REG, PROTECT)
380mA
TO GA-6
9mA
GB-1
GB-14 TO E-12
GB-7 TO S601(S)
GB-13 TO Q801 TO Q5329
GB-6 TO GC-7
(70) 14.2Vp-p(H)
GB-5 TO DC851
(71) 88Vp-p(H)
GB-9 TO F-6
GB-8 TO Q-5
Q6213 2SC1475 RELAY DRIVE-2
D6216 S1B01-02 STOPPER
D6215 1S1555 PROTECT
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
D6211 1S1555 STOPPER
Q6211 2SC1364 IK PROTECT DET
Q6212 2SC1364 RELAY DRIVE-1
D6214 CV12E PROTECT
D6212,6210 1S1555 V.C-E COMP-1,2
Q6208 2SC1364 PROTECT DRIVE
D6213 1S1555 STOPPER
D6207 EQA01-10R PROTECT ZENER
D6208,6209 V06C THERMO COMP-1,2
Q6206 2SC1364 V. PROTECT DET
Q6205,6204 2SC1364 HV DET-1,2
F6201 1.6A

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- The components identified by ◪ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

  When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ◪ and repeat the adjustment until the specified value is achieved.

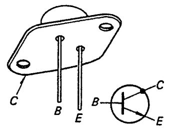
  (Refer to R6211/R6212 Adjustment, (On Page 28) R6207/R6208 (On Page 28) Adjustment.)

When replacing the part in below table, be sure to perform the related adjustment.

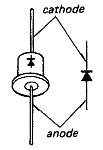
Part replaced (◪)	Adjustment
DC851 R807, R808, R810 T801, T802 C802, C803, C804, C805 Q6204, Q6205, D6207 R6207, R6208, R6210, R6211 R6212	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT

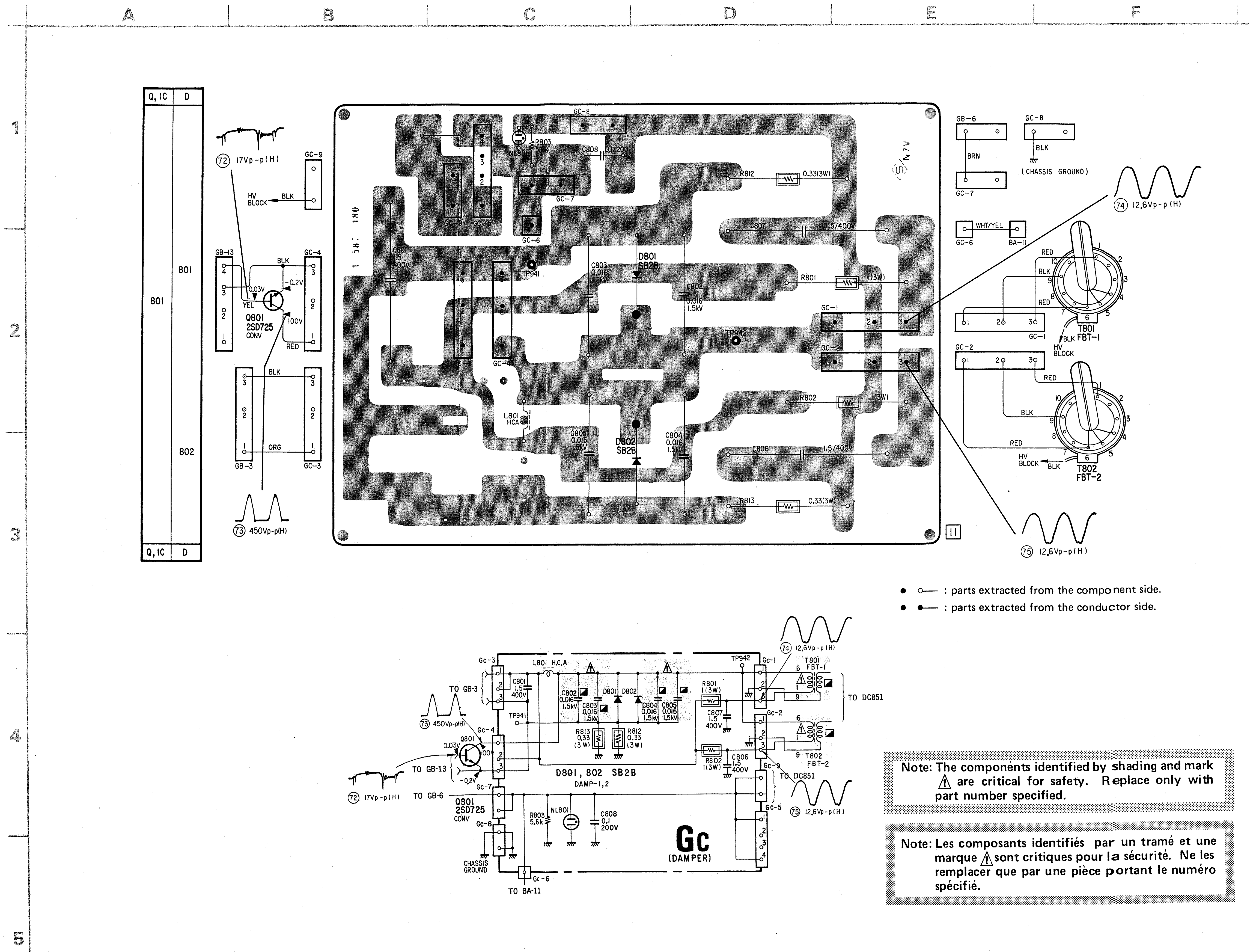
MOUNTING DIAGRAM
– GC Board –

2SD725



SB2B


cathode
anode


A
B
C
D
E
F
1
2
3
4
5
Q, IC
D
801
801
802
⑦② 17Vp-p(H)
GC-9
HV BLOCK
BLK
GB-13
GC-4
BLK
0.03V
-0.2V
YEL
Q801
2SD725
CONV
100V
RED
BLK
GB-3
GC-3
ORG
⑦③ 450Vp-p(H)
GC-8
R803 5.6k
NL801
C808 0.1/200
GC-7
GC-6
GC-9
GC-5
R812 0.33(3W)
C807 1.5/400V
C801 1.5 400V
TP941
C803 0.016 1.5kV
D801 SB2B
C802 0.016 1.5kV
R801 1(3W)
GC-1
TP942
GC-2
GC-3
GC-4
R802 1(3W)
L801 HCA
C805 0.016 1.5kV
D802 SB2B
C804 0.016 1.5kV
C806 1.5/400V
R813 0.33(3W)
GB-6
GC-8
BRN
BLK
(CHASSIS GROUND)
GC-7
GC-6
WHT/YEL
BA-11
⑦④ 12.6Vp-p(H)
RED
BLK
RED
GC-1
T801 FBT-1
BLK
HV BLOCK
GC-2
RED
BLK
RED
HV BLOCK
BLK
T802 FBT-2
⑦⑤ 12.6Vp-p(H)

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

SCHEMATIC DIAGRAM
– GC Board –

TO GB-3
⑦③ 450Vp-p(H)
Gc-3
L801 H.C.A
C801 1.5 400V
TP941
C802 0.016 1.5kV
C803 0.016 1.5kV
D801
D802
C804 0.016 1.5kV
C805 0.016 1.5kV
R813 0.33 (3W)
R812 0.33 (3W)
TP942
R801 1(3W)
C807 1.5 400V
R802 1(3W)
C806 1.5 400V
Gc-1
Gc-2
T801 FBT-1
T802 FBT-2
TO DC851
TO DC851
⑦④ 12.6Vp-p(H)
⑦⑤ 12.6Vp-p(H)
Gc-4
Q801
0.03V
100V
-0.2V
TO GB-13
⑦② 17Vp-p(H)
TO GB-6
Gc-7
Q801 2SD725 CONV
Gc-8
CHASSIS GROUND
D801, 802 SB2B
DAMP-1, 2
R803 5.6k
NL801
C808 0.1 200V
Gc (DAMPER)
Gc-9
Gc-5
Gc-6
TO BA-11

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

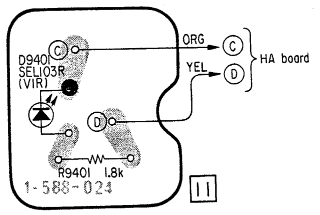
HE

[VIR RED]

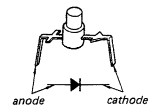
I

[TUNING INDICATION]

MOUNTING DIAGRAM
– HE Board –

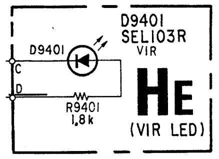

D9401
SEL103R
(VIR)
C
D
ORG
YEL
HA board
R9401 1.8k
1-588-024
11

SEL103R

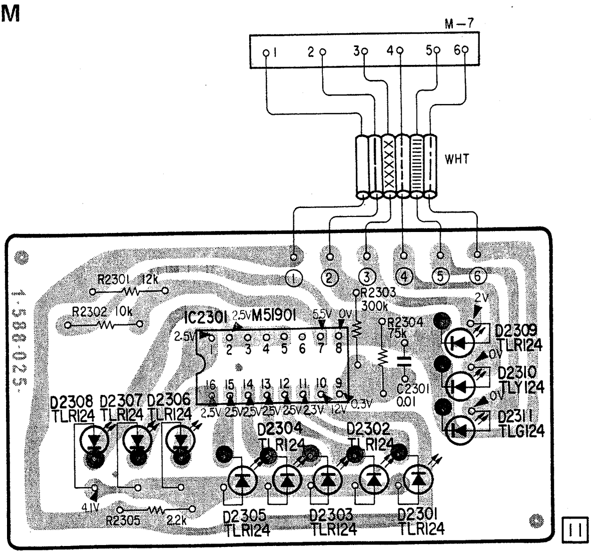

anode
cathode

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

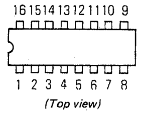
SCHEMATIC DIAGRAM
– HE Board –


D9401
SEL103R
VIR
TO HA BOARD
C
D
R9401
1.8k
HE
(VIR LED)

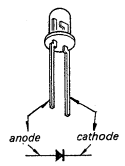
MOUNTING DIAGRAM
– I Board –


M-7
1 2 3 4 5 6
WHT
1-588-025
R2301 12k
R2302 10k
R2303 300k
R2304 75k
IC2301 M51901
C2301 0.01
D2309 TLR124
D2310 TLY124
D2311 TLG124
D2308 D2307 D2306
TLR124 TLR124 TLR124
D2304 TLR124
D2302 TLR124
D2305 TLR124
D2303 TLR124
D2301 TLR124
R2305 2.2k
4.1V
11

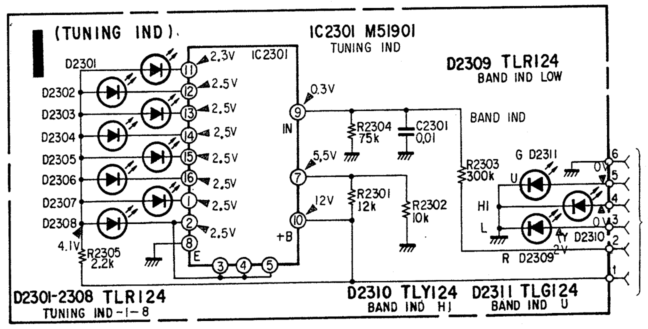
M51901


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

TLG124
TLR124
TLY124


anode
cathode

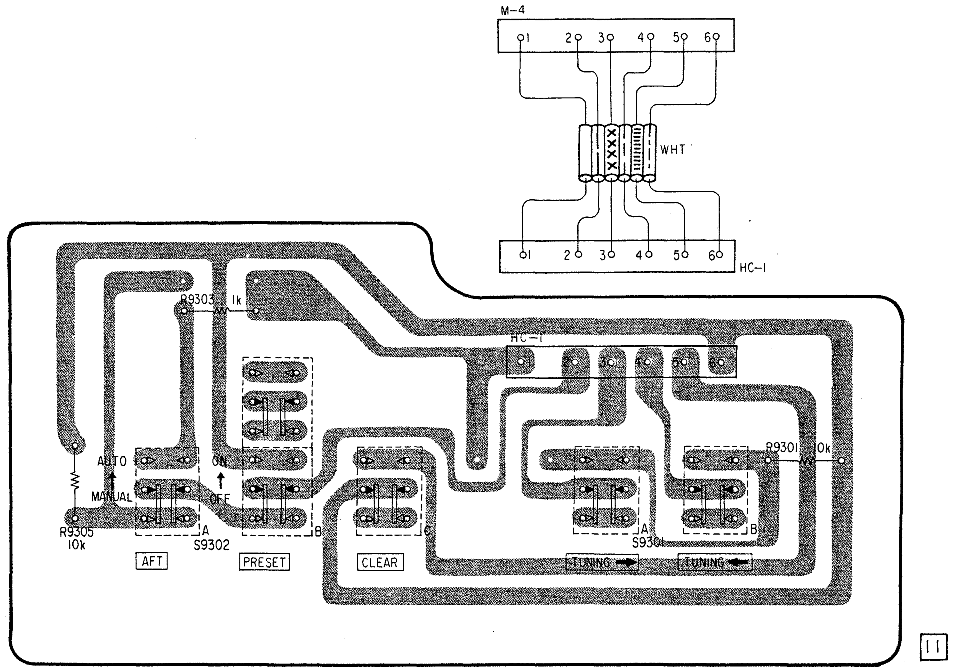
SCHEMATIC DIAGRAM
– I Board –


I (TUNING IND)
IC2301 M51901
TUNING IND
D2309 TLR124
BAND IND LOW
D2301
D2302
D2303
D2304
D2305
D2306
D2307
D2308
2.3V
2.5V
0.3V
IN
R2304 75k
C2301 0.01
BAND IND
5.5V
12V
R2301 12k
R2302 10k
R2303 300k
G D2311
U
HI
L
R D2309
D2310
+B
4.1V
R2305 2.2k
E
TO M-7
D2301-2308 TLR124
TUNING IND-1-8
D2310 TLY124
BAND IND HI
D2311 TLG124
BAND IND U

- Voltages in I board are taken with channel selector button set to CH-2 (LOW BAND).
- Reference numbers of the I board differ from those indicated on the printed circuit board of the set.
  Read the reference numbers of the I board by adding 2300 to those indicated.

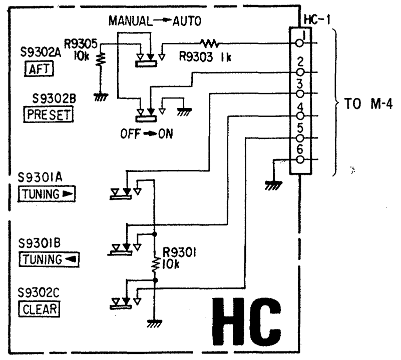
MOUNTING DIAGRAM
– HC Board –

[TUNING CONTROL]


M-4
1
2
3
4
5
6
WHT
HC-1
R9303 1k
HC-1
AUTO
MANUAL
R9305
10k
ON
OFF
A
S9302
B
C
AFT
PRESET
CLEAR
R9301 10k
A
S9301
B
TUNING ➡
TUNING ⬅
11

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

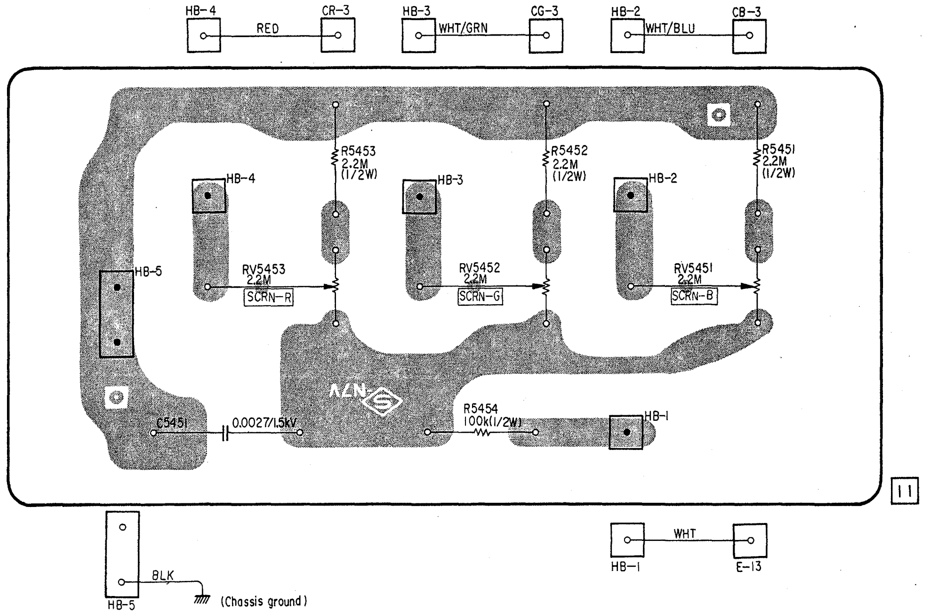
SCHEMATIC DIAGRAM
– HC Board –


MANUAL → AUTO
S9302A
AFT
R9305
10k
R9303 1k
S9302B
PRESET
OFF → ON
HC-1
1
2
3
4
5
6
TO M-4
S9301A
TUNING ►
S9301B
TUNING ◄
R9301
10k
S9302C
CLEAR
HC

(TUNING CONT)

MOUNTING DIAGRAM

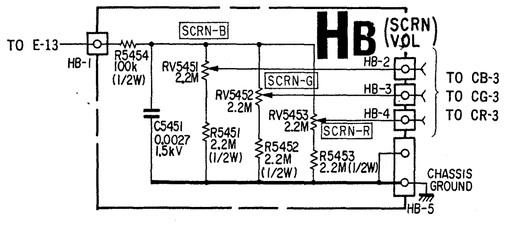
– HB Board –


HB-4
RED
CR-3
HB-3
WHT/GRN
CG-3
HB-2
WHT/BLU
CB-3
R5453 2.2M (1/2W)
R5452 2.2M (1/2W)
R5451 2.2M (1/2W)
HB-4
HB-3
HB-2
HB-5
RV5453 2.2M SCRN-R
RV5452 2.2M SCRN-G
RV5451 2.2M SCRN-B
C5451
0.0027/1.5kV
R5454 100k(1/2W)
HB-1
11
WHT
HB-1
E-13
BLK
HB-5
(Chassis ground)

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

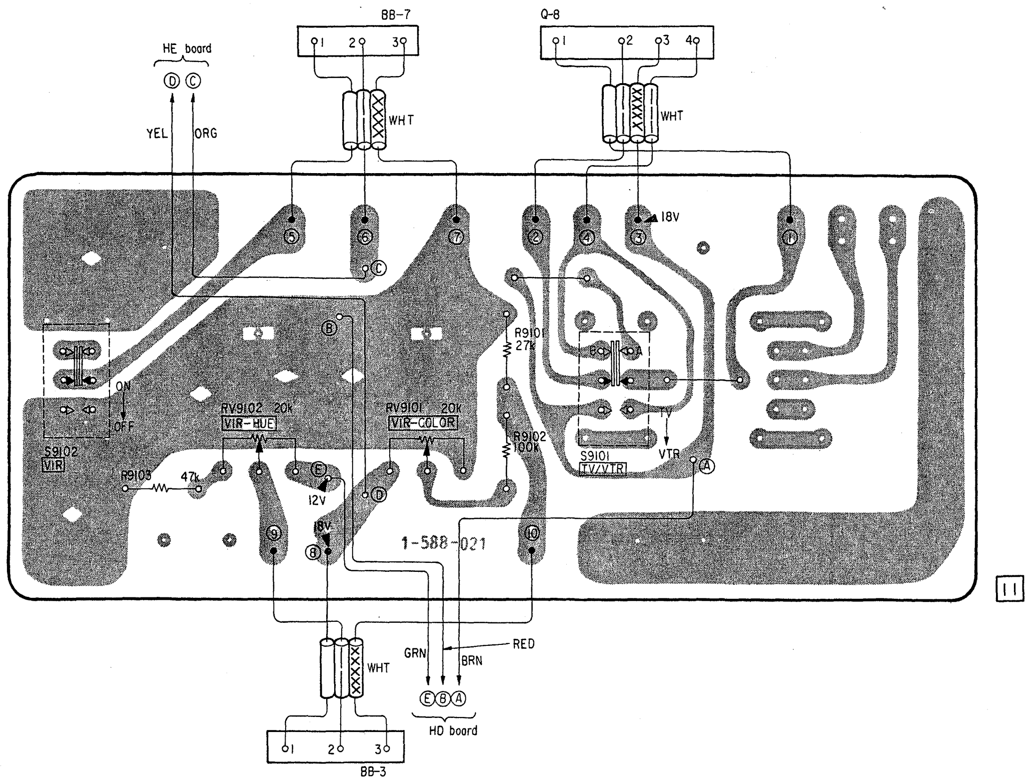
SCHEMATIC DIAGRAM

– HB Board –


TO E-13
HB-1
R5454 100k (1/2W)
SCRN-B
HB (SCRN VOL)
HB-2
RV5451 2.2M
SCRN-G
HB-3
RV5452 2.2M
HB-4
RV5453 2.2M
SCRN-R
TO CB-3
TO CG-3
TO CR-3
C5451 0.0027 1.5kV
R5451 2.2M (1/2W)
R5452 2.2M (1/2W)
R5453 2.2M(1/2W)
CHASSIS GROUND
HB-5

MOUNTING DIAGRAM
– HA Board –

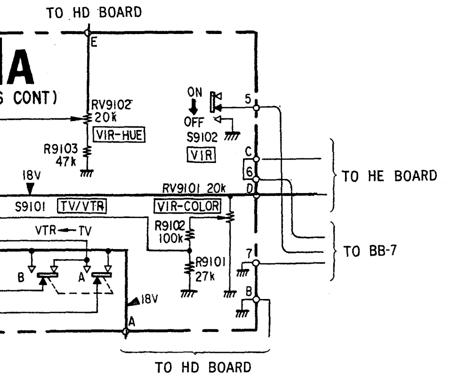
[VIRS CONTROL]


BB-7
1 2 3
Q-8
1 2 3 4
HE board
D C
YEL
ORG
WHT
18V
R9101 27k
RV9102 20k
VIR-HUE
RV9101 20k
VIR-COLOR
R9102 100k
S9101
TV/VTR
VTR
ON
OFF
S9102
VIR
R9103
47k
12V
18V
1-588-021
11
GRN
RED
BRN
E B A
HD board
BB-3

○— : parts extracted from the component side.

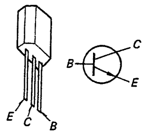
●— : parts extracted from the conductor side.

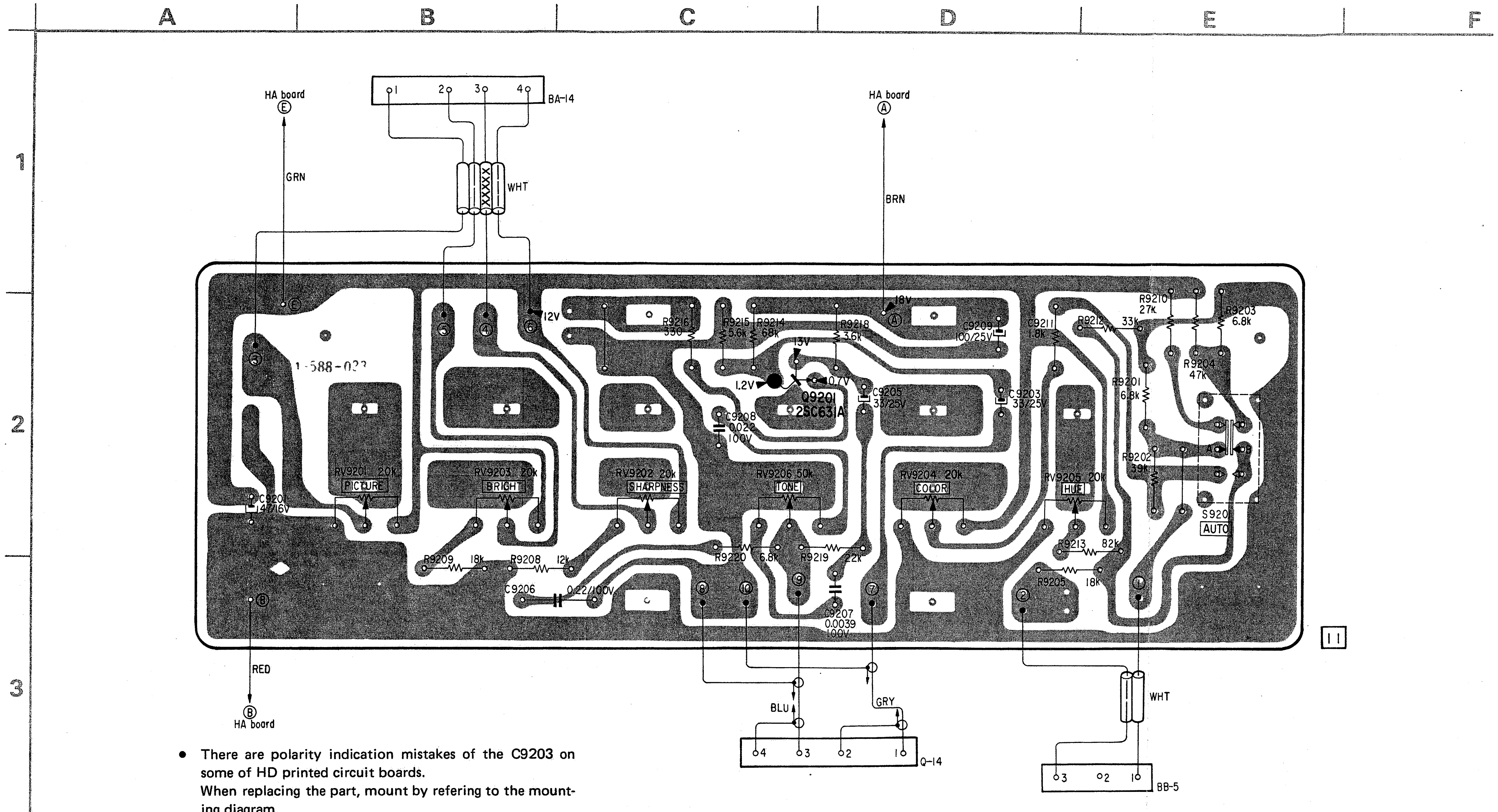
SCHEMATIC DIAGRAM
– HA Board –


TO HD BOARD
HA
(VIRS CONT)
E
RV9102
20k
VIR-HUE
R9103
47k
ON
OFF
S9102
VIR
5
C
6
D
TO HE BOARD
TO BB-3
9
8
10
18V
S9101
TV/VTR
RV9101 20k
VIR-COLOR
R9102
100k
R9101
27k
TO Q-8
4
3
2
1
VTR ← TV
B
A
18V
A
7
B
TO BB-7
TO HD BOARD

MOUNTING DIAGRAM
– HD Board –

2SC631A

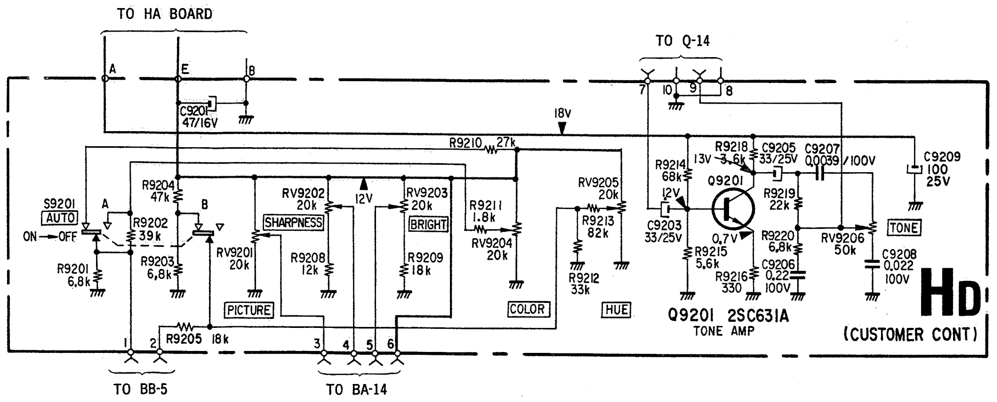



A
B
C
D
E
F
1
2
3
4
5
HA board
Ⓔ
GRN
BA-14
WHT
HA board
Ⓐ
BRN
12V
18V
R9216 330
R9215 5.6k
R9214 68k
R9218 3.6k
C9209 100/25V
C9211 1.8k
R9212 33k
R9210 27k
R9203 6.8k
R9204 47k
13V
1.2V
10.7V
Q9201 2SC631A
C9205 33/25V
C9208 0.022 100V
C9203 33/25V
R9201 6.8k
R9202 39k
1-588-023
C9201 47/16V
RV9201 20k PICTURE
RV9203 20k BRIGHT
RV9202 20k SHARPNESS
RV9206 50k TONE
RV9204 20k COLOR
RV9205 20k HUE
S9201 AUTO
R9213 82k
R9205 18k
R9209 18k
R9208 12k
R9220 6.8k
R9219 22k
C9206 0.22/100V
C9207 0.0039 100V
Ⓑ
RED
Ⓑ
HA board
BLU
GRY
4 3 2 1
Q-14
WHT
3 2 1
BB-5
11

- There are polarity indication mistakes of the C9203 on some of HD printed circuit boards. When replacing the part, mount by refering to the mounting diagram.

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

SCHEMATIC DIAGRAM
– HD Board –

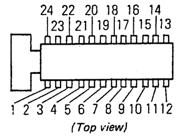

TO HA BOARD
A
E
B
C9201 47/16V
TO Q-14
7 10 9 8
18V
R9210 27k
S9201 AUTO
ON — OFF
R9201 6.8k
R9204 47k
R9202 39k
R9203 6.8k
RV9201 20k
PICTURE
RV9202 20k
SHARPNESS
12V
RV9203 20k
BRIGHT
R9208 12k
R9209 18k
R9211 1.8k
RV9204 20k
COLOR
RV9205 20k
R9213 82k
R9212 33k
HUE
R9214 68k
13V
R9218 3.6k
C9205 33/25V
C9207 0.0039/100V
C9209 100 25V
Q9201
R9219 22k
C9203 33/25V
0.7V
R9215 5.6k
R9216 330
R9220 6.8k
C9206 0.22 100V
RV9206 50k
TONE
C9208 0.022 100V
Q9201 2SC631A
TONE AMP
HD
(CUSTOMER CONT)
R9205 18k
1 2
3 4 5 6
TO BB-5
TO BA-14

[SYNC, REMOTE CONTROL / TUNING CONTROL] **M** **M**

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

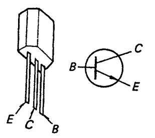
MOUNTING DIAGRAM
— M Board —

CX185
CX760

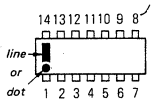

24 22 20 18 16 14
23 21 19 17 15 13
1 2 3 4 5 6 7 8 9 10 11 12

(Top view)

2SC634A

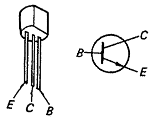


CX755

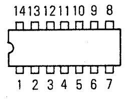

14 13 12 11 10 9 8
line or dot
1 2 3 4 5 6 7

(Top view)

2SC1475

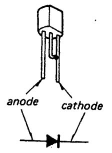


CX761

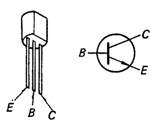

14 13 12 11 10 9 8
1 2 3 4 5 6 7

(Top view)

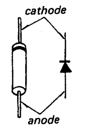
μPC574J


anode
cathode

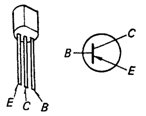
2N3904



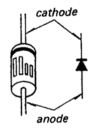
1S1555


cathode
anode

2SA733



EQA01-12S


cathode
anode

The IC CX761 has 14 preset channel memories, but the Models KP-5000 and KP-7200 have only 12 preset channel buttons. Therefore two preset channel memories must be cleared to keep smooth electronic tuning.

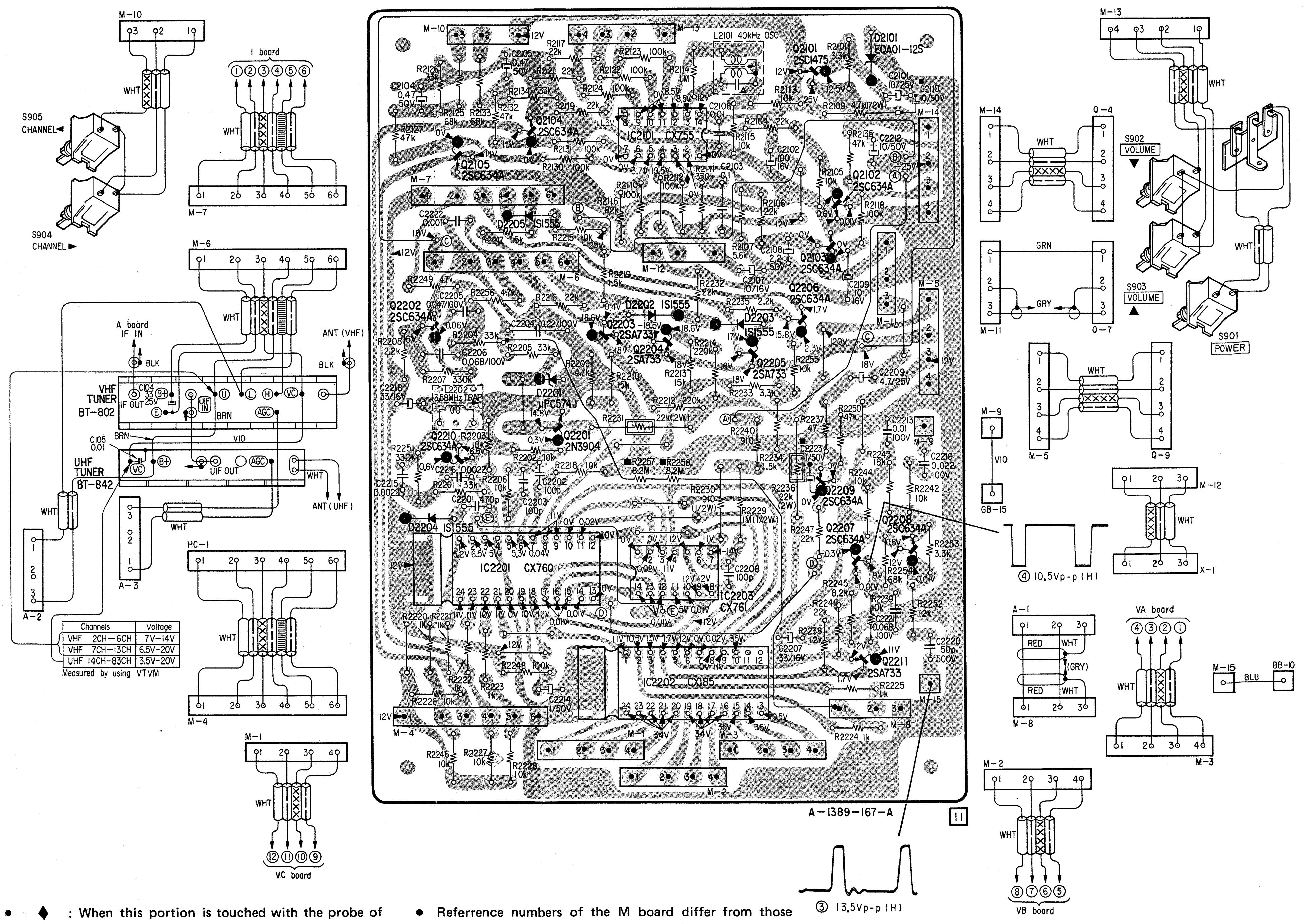
When replacing the IC2203 (CX761), follow the next procedure;

(For clear explanation, suppose the channels are named A-L as shown below.)

A	B	C	D	E	F	G	H	I	J	K	L

1. Preset the CH-A to the CH-L.
2. Tune in the CH-L.
3. Press the CHANNEL ▶ (S904) button once.
4. Push the PRESET (S9302B) switch ON.
5. Press the CLEAR (S9302C) button.
6. Repeat the steps above (3 to 5) once more.
7. Push the PRESET (S9302B) switch OFF.
8. Tune in the CH-L.
9. Press the CHANNEL ▶ (S904) button once, make sure that the CH-A indicator lights on.
10. Press the CHANNEL ◀ (S905) button once, make sure that CH-L indicator lights on.

Q, IC	2105 2202 2210 2104 IC2201 2201 2203 IC2101 2204 IC2203 IC2202 2205 2101 2206 2102 2103 2209 2207 2211 2208 2101	Q, IC
D	2204 2205 2201 2202 2203	D

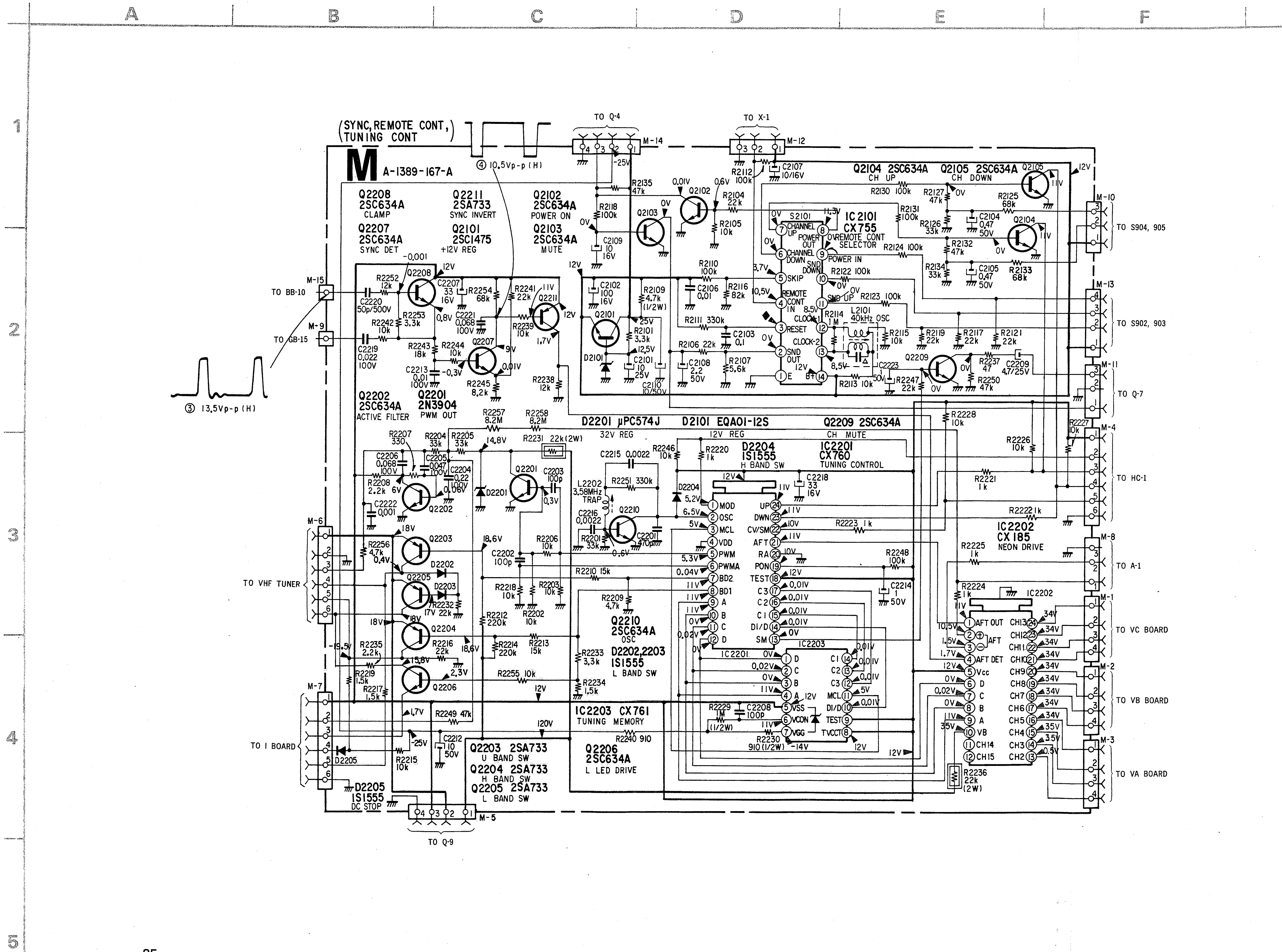

A
B
C
D
E
F
1
2
3
4
5
M-10
M-13
M-14
M-7
M-6
M-12
M-11
M-5
M-9
M-4
M-1
M-2
M-3
M-8
M-15
HC-1
A-1
A-2
A-3
Q-4
Q-7
Q-9
X-1
GB-15
BB-10
I board
A board IF IN
VC board
VB board
VA board
S905 CHANNEL◀
S904 CHANNEL▶
S902 VOLUME
S903 VOLUME
S901 POWER
VHF TUNER BT-802
UHF TUNER BT-842
ANT (VHF)
ANT (UHF)
WHT
BLK
BRN
GRN
GRY
RED
BLU
VIO
IC2101 CX755
IC2201 CX760
IC2202 CX185
IC2203 CX761
L2101 40kHz OSC
Q2101 2SC1475
D2101 EQA01-12S
Q2104 2SC634A
Q2105 2SC634A
Q2102 2SC634A
Q2103 2SC634A
Q2202 2SC634A
Q2203 2SA733
Q2204 2SA733
Q2205 2SA733
Q2206 2SC634A
D2201 μPC574J
Q2201 2N3904
Q2210 2SC634A
Q2209 2SC634A
Q2207 2SC634A
Q2208 2SC634A
Q2211 2SA733
D2202 1S1555
D2203 1S1555
D2204 1S1555
D2205 1S1555
④ 10.5Vp-p (H)
③ 13.5Vp-p (H)
A-1389-167-A
11

Channels		Voltage
VHF	2CH−6CH	7V−14V
VHF	7CH−13CH	6.5V−20V
UHF	14CH−83CH	3.5V−20V

Measured by using VTVM

- ♦ : When this portion is touched with the probe of a VOM, the set will be turned off.
- Voltages in M board are taken with the channel selector button set to CH-2 (LOW BAND).
- Referrence numbers of the M board differ from those indicated on the printed circuit board of the set. Read the reference numbers of the M board by adding 2300 to those indicated.

SCHEMATIC DIAGRAM
— M Board —


A
B
C
D
E
F
1
2
3
4
5
(SYNC, REMOTE CONT, TUNING CONT)
④ 10.5Vp-p (H)
③ 13.5Vp-p (H)
M A-1389-167-A
Q2208 2SC634A CLAMP
Q2207 2SC634A SYNC DET
Q2211 2SA733 SYNC INVERT
Q2101 2SC1475 +12V REG
Q2102 2SC634A POWER ON
Q2103 2SC634A MUTE
Q2202 2SC634A ACTIVE FILTER
Q2201 2N3904 PWM OUT
Q2104 2SC634A CH UP
Q2105 2SC634A CH DOWN
Q2209 2SC634A CH MUTE
D2201 μPC574J 32V REG
D2101 EQA01-12S 12V REG
D2204 1S1555 H BAND SW
IC2201 CX760 TUNING CONTROL
IC2101 CX755
IC2202 CX185 NEON DRIVE
IC2203 CX761 TUNING MEMORY
Q2210 2SC634A OSC
D2202, 2203 1S1555 L BAND SW
Q2206 2SC634A L LED DRIVE
Q2203 2SA733 U BAND SW
Q2204 2SA733 H BAND SW
Q2205 2SA733 L BAND SW
D2205 1S1555 DC STOP
L2202 3.58MHz TRAP
L2101 40kHz OSC
S2101 CHANNEL UP
POWER OUT
REMOTE CONT SELECTOR
CHANNEL DOWN
POWER IN
SND DOWN
SND UP
SKIP
REMOTE CONT IN
RESET
CLOCK 1
CLOCK 2
SND OUT
E
B+
MOD
OSC
MCL
VDD
PWM
PWMA
BD2
BD1
A
B
C
D
UP
DWN
CV/SM
AFT
RA
PON
TEST
C3
C2
C1
DI/D
SM
VSS
VCON
VGG
TVCCT
AFT OUT
AFT
AFT DET
Vcc
VB
CH14
CH15
CH2
CH3
CH4
CH5
CH6
CH7
CH8
CH9
CH10
CH11
CH12
CH13
R2231 22k (2W)
R2236 22k (2W)
R2230 910 (1/2W)
R2229 1M (1/2W)
R2109 4.7k (1/2W)
TO Q-4
TO X-1
TO BB-10
TO GB-15
TO VHF TUNER
TO I BOARD
TO Q-9
TO S904, 905
TO S902, 903
TO Q-7
TO HC-1
TO A-1
TO VC BOARD
TO VB BOARD
TO VA BOARD
M-1
M-2
M-3
M-4
M-5
M-6
M-7
M-8
M-9
M-10
M-11
M-12
M-13
M-14
M-15
12V
-25V
-14V
120V

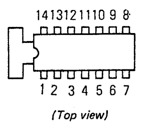
VIDEO SW, AUDIO SW
AUDIO OUT, –25V SW

Q **Q**

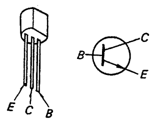
- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.

MOUNTING DIAGRAM
– Q Board –

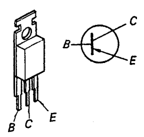
CX095C


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

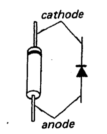
2SC1383



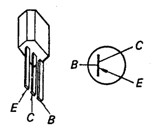
2SA671



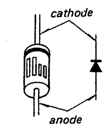
1S1555


cathode
anode

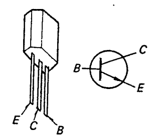
2SA678



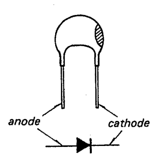
EQA01-25R


cathode
anode

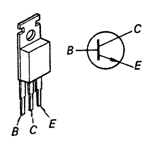
2SC634A



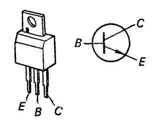
VD1220

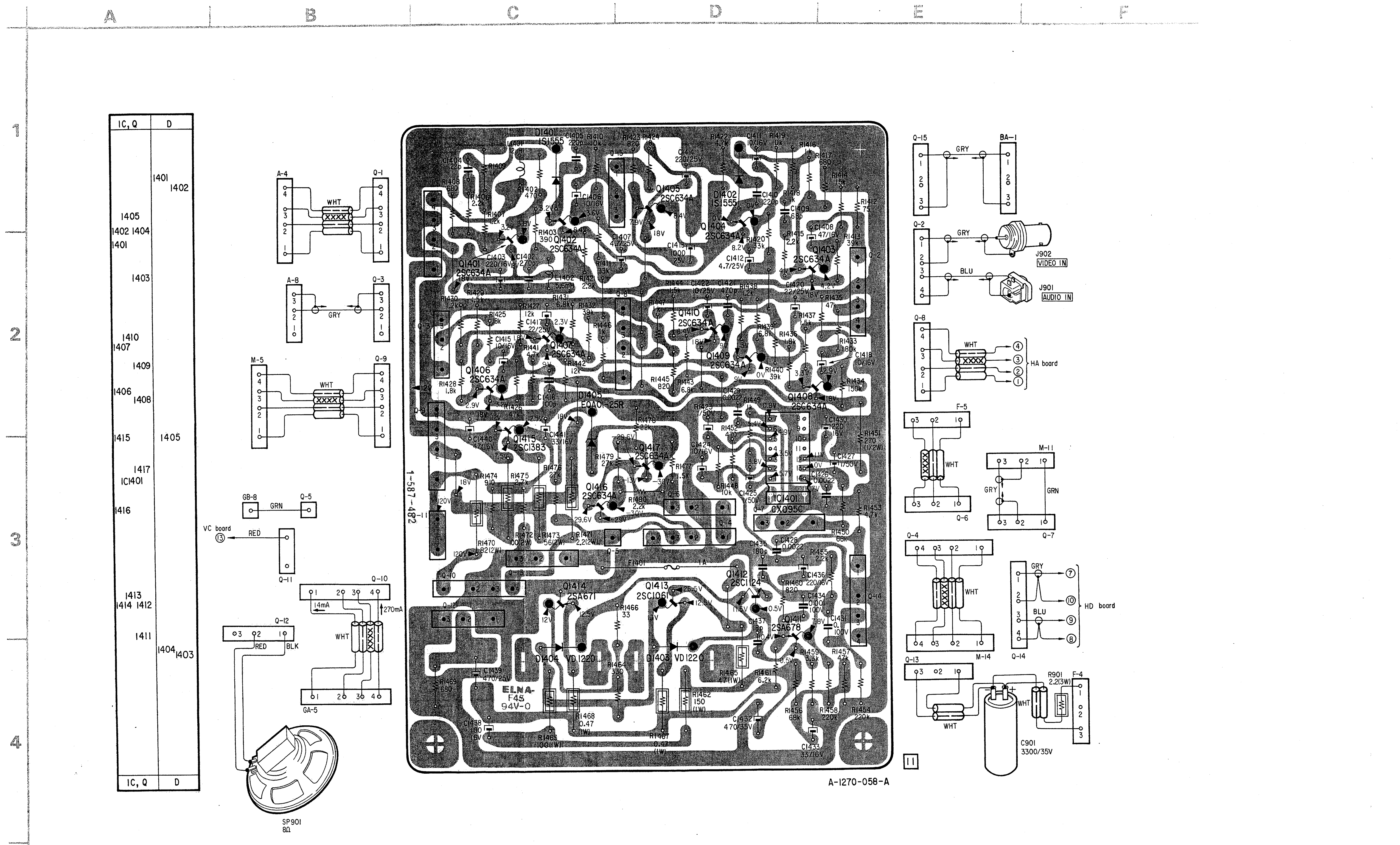

anode
cathode

2SC1061



2SC1124

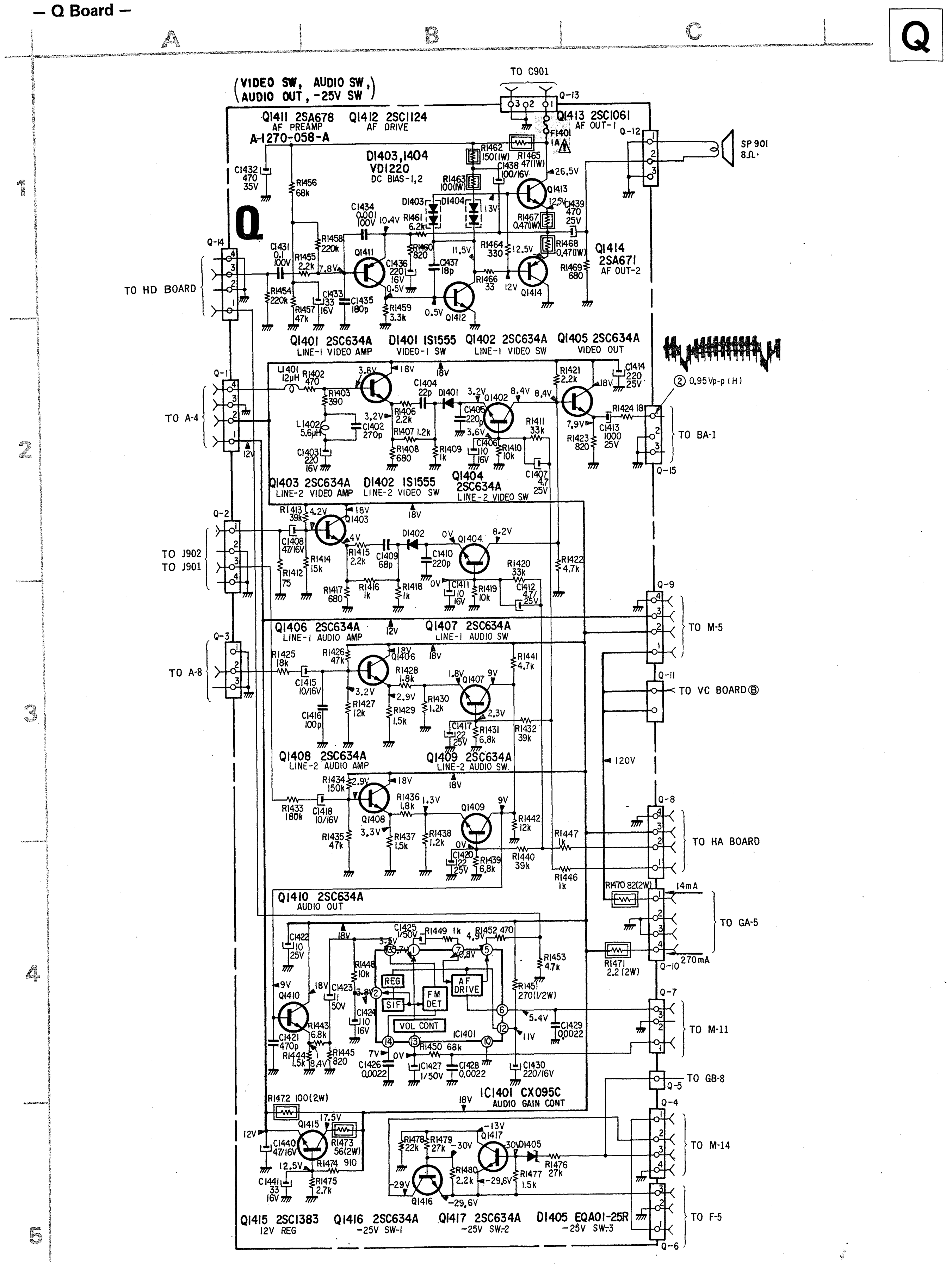



A
B
C
D
E
F
1
2
3
4
IC, Q
D
1401
1402
1405
1402 1404
1401
1403
1410
1407
1409
1406
1408
1415
1405
1417
IC1401
1416
1413
1414 1412
1411
1404
1403
IC, Q
D
A-4
Q-1
WHT
A-8
Q-3
GRY
M-5
Q-9
WHT
GB-8
GRN
Q-5
VC board
⑬
RED
Q-11
Q-10
14mA
270mA
Q-12
RED
BLK
WHT
GA-5
SP901
8Ω
1-587-482
Q1401 2SC634A
Q1402 2SC634A
Q1403 2SC634A
Q1404 2SC634A
Q1405 2SC634A
Q1406 2SC634A
Q1407 2SC634A
Q1408 2SC634A
Q1409 2SC634A
Q1410 2SC634A
Q1411 2SA678
Q1412 2SC1124
Q1413 2SC1061
Q1414 2SA671
Q1415 2SC1383
Q1416 2SC634A
Q1417 2SC634A
D1401 1S1555
D1402 1S1555
D1403 VD1220
D1404 VD1220
D1405 EQA01-25R
IC1401 CX095C
F1401 1A
ELNA F45 94V-0
A-1270-058-A
Q-15
GRY
BA-1
Q-2
GRY
BLU
J902 VIDEO IN
J901 AUDIO IN
Q-8
WHT
HA board
④
③
②
①
F-5
WHT
Q-6
M-11
GRY
GRN
Q-7
Q-4
WHT
Q-14
GRY
BLU
HD board
⑦
⑩
⑨
⑧
M-14
Q-13
R901 2.2(3W)
F-4
WHT
C901 3300/35V

- Voltages in Q board are taken with the TV/VTR switch set to TV.
- Reference numbers of the Q board differ from those indicated on the printed circuit board of the set.
  Read the reference numbers of the Q board by adding 1000 to those indicated.

SCHEMATIC DIAGRAM
– Q Board –

SCC-194A-A/SCC-195A-A


Q
A
B
C
1
2
3
4
5
(VIDEO SW, AUDIO SW, AUDIO OUT, -25V SW)
A-1270-058-A
TO C901
Q1411 2SA678 AF PREAMP
Q1412 2SC1124 AF DRIVE
Q1413 2SC1061 AF OUT-1
Q1414 2SA671 AF OUT-2
D1403,1404 VD1220 DC BIAS-1,2
F1401 1A
SP 901 8Ω
TO HD BOARD
Q1401 2SC634A LINE-1 VIDEO AMP
D1401 1S1555 VIDEO-1 SW
Q1402 2SC634A LINE-1 VIDEO SW
Q1405 2SC634A VIDEO OUT
② 0.95Vp-p (H)
TO A-4
TO BA-1
Q1403 2SC634A LINE-2 VIDEO AMP
D1402 1S1555 LINE-2 VIDEO SW
Q1404 2SC634A LINE-2 VIDEO SW
TO J902
TO J901
Q1406 2SC634A LINE-1 AUDIO AMP
Q1407 2SC634A LINE-1 AUDIO SW
TO M-5
TO A-8
TO VC BOARD Ⓑ
120V
Q1408 2SC634A LINE-2 AUDIO AMP
Q1409 2SC634A LINE-2 AUDIO SW
TO HA BOARD
Q1410 2SC634A AUDIO OUT
REG
SIF
FM DET
AF DRIVE
VOL CONT
IC1401 CX095C AUDIO GAIN CONT
TO GA-5
14mA
270mA
TO M-11
TO GB-8
TO M-14
TO F-5
Q1415 2SC1383 12V REG
Q1416 2SC634A -25V SW-1
Q1417 2SC634A -25V SW-2
D1405 EQA01-25R -25V SW-3

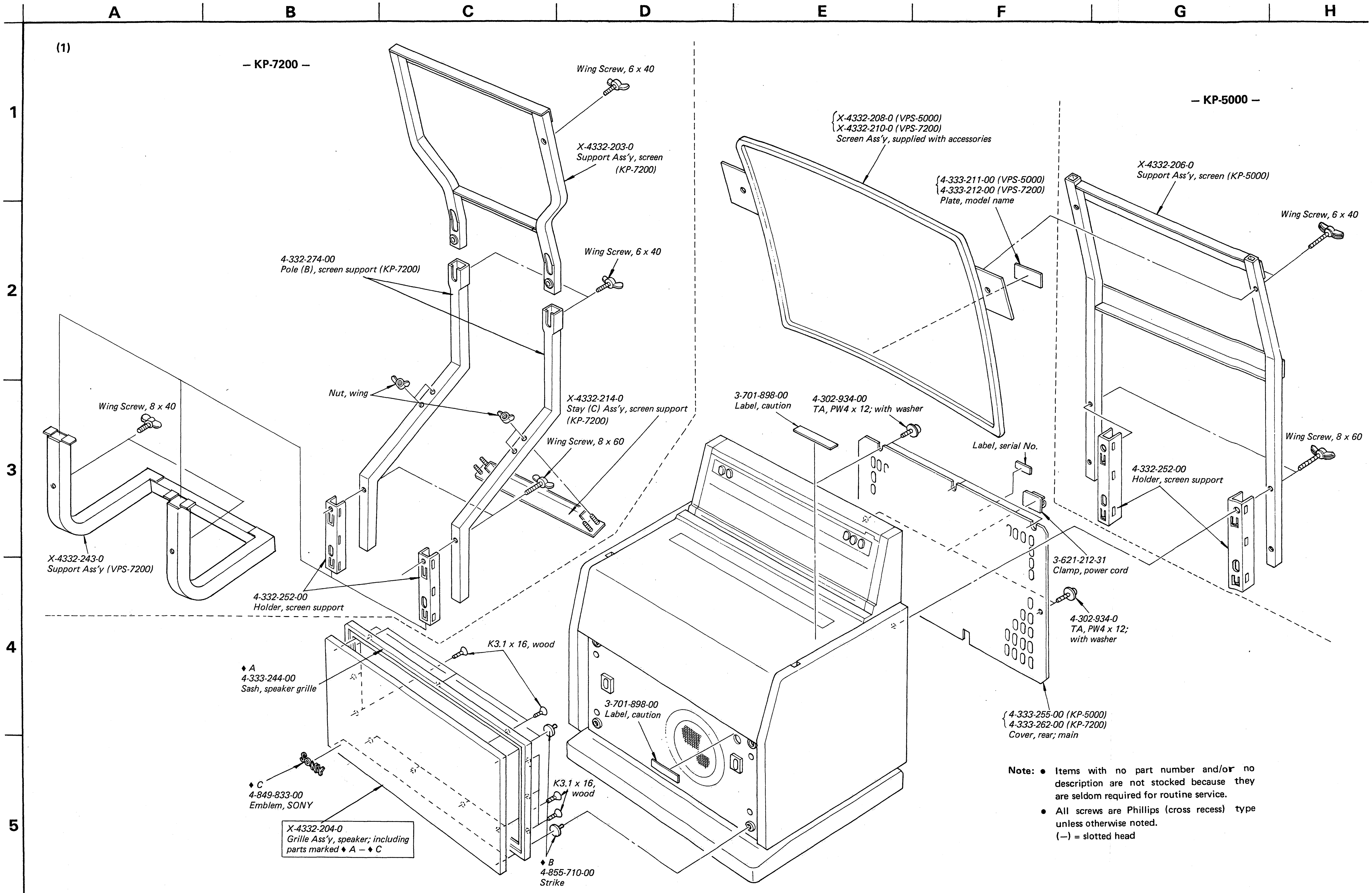
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

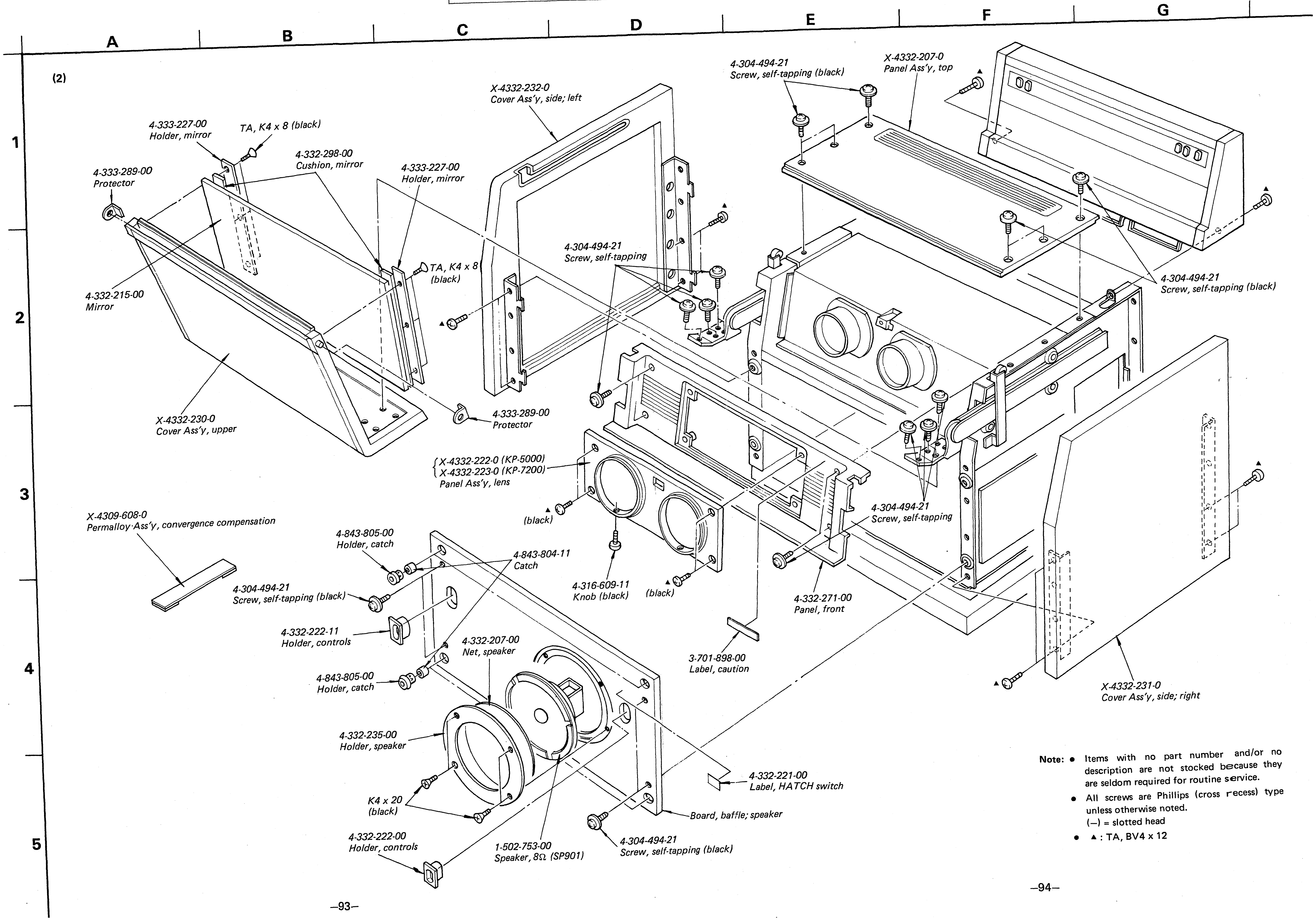
MEMO

SECTION 6
EXPLODED VIEWS

(1)


A
B
C
D
E
F
G
H
1
2
3
4
5
– KP-7200 –
Wing Screw, 6 x 40
X-4332-203-0
Support Ass'y, screen
(KP-7200)
Wing Screw, 6 x 40
4-332-274-00
Pole (B), screen support (KP-7200)
Nut, wing
X-4332-214-0
Stay (C) Ass'y, screen support
(KP-7200)
Wing Screw, 8 x 60
Wing Screw, 8 x 40
X-4332-243-0
Support Ass'y (VPS-7200)
4-332-252-00
Holder, screen support
K3.1 x 16, wood
♦ A
4-333-244-00
Sash, speaker grille
♦ C
4-849-833-00
Emblem, SONY
X-4332-204-0
Grille Ass'y, speaker; including
parts marked ♦ A – ♦ C
K3.1 x 16,
wood
♦ B
4-855-710-00
Strike
3-701-898-00
Label, caution
X-4332-208-0 (VPS-5000)
X-4332-210-0 (VPS-7200)
Screen Ass'y, supplied with accessories
4-333-211-00 (VPS-5000)
4-333-212-00 (VPS-7200)
Plate, model name
3-701-898-00
Label, caution
4-302-934-00
TA, PW4 x 12; with washer
Label, serial No.
3-621-212-31
Clamp, power cord
4-302-934-0
TA, PW4 x 12;
with washer
4-333-255-00 (KP-5000)
4-333-262-00 (KP-7200)
Cover, rear; main
– KP-5000 –
X-4332-206-0
Support Ass'y, screen (KP-5000)
Wing Screw, 6 x 40
Wing Screw, 8 x 60
4-332-252-00
Holder, screen support

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head


A
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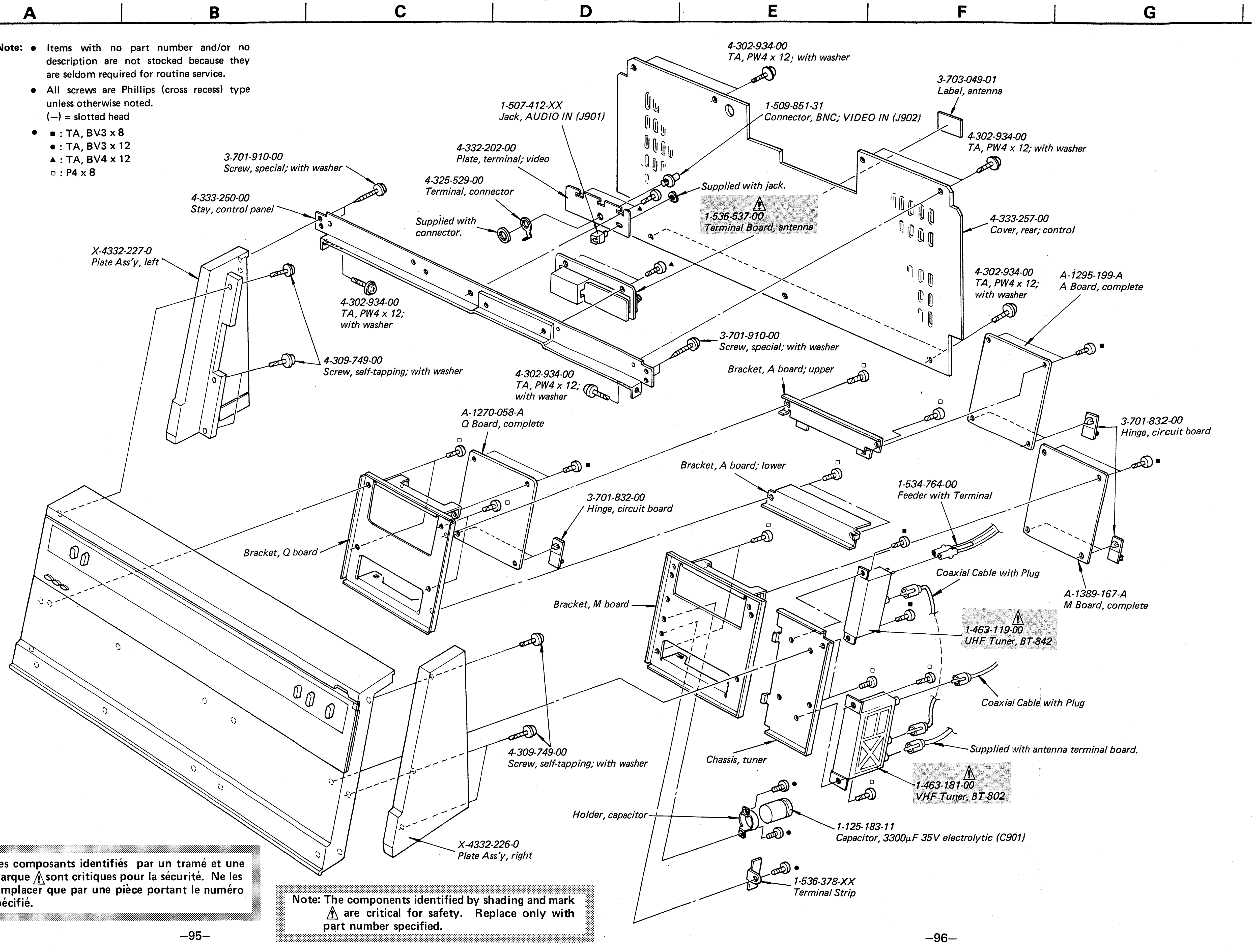
(2)
4-333-227-00
Holder, mirror
TA, K4 x 8 (black)
4-332-298-00
Cushion, mirror
4-333-289-00
Protector
4-333-227-00
Holder, mirror
X-4332-232-0
Cover Ass'y, side; left
4-304-494-21
Screw, self-tapping (black)
X-4332-207-0
Panel Ass'y, top
4-332-215-00
Mirror
TA, K4 x 8
(black)
4-304-494-21
Screw, self-tapping
4-304-494-21
Screw, self-tapping (black)
X-4332-230-0
Cover Ass'y, upper
4-333-289-00
Protector
X-4332-222-0 (KP-5000)
X-4332-223-0 (KP-7200)
Panel Ass'y, lens
X-4309-608-0
Permalloy·Ass'y, convergence compensation
(black)
4-843-805-00
Holder, catch
4-843-804-11
Catch
4-304-494-21
Screw, self-tapping
4-304-494-21
Screw, self-tapping (black)
4-316-609-11
Knob (black)
(black)
4-332-271-00
Panel, front
4-332-222-11
Holder, controls
4-332-207-00
Net, speaker
3-701-898-00
Label, caution
4-843-805-00
Holder, catch
X-4332-231-0
Cover Ass'y, side; right
4-332-235-00
Holder, speaker
4-332-221-00
Label, HATCH switch
K4 x 20
(black)
Board, baffle; speaker
4-332-222-00
Holder, controls
1-502-753-00
Speaker, 8Ω (SP901)
4-304-494-21
Screw, self-tapping (black)

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ▲: TA, BV4 x 12

(3) **Note:**
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12
  □ : P4 x 8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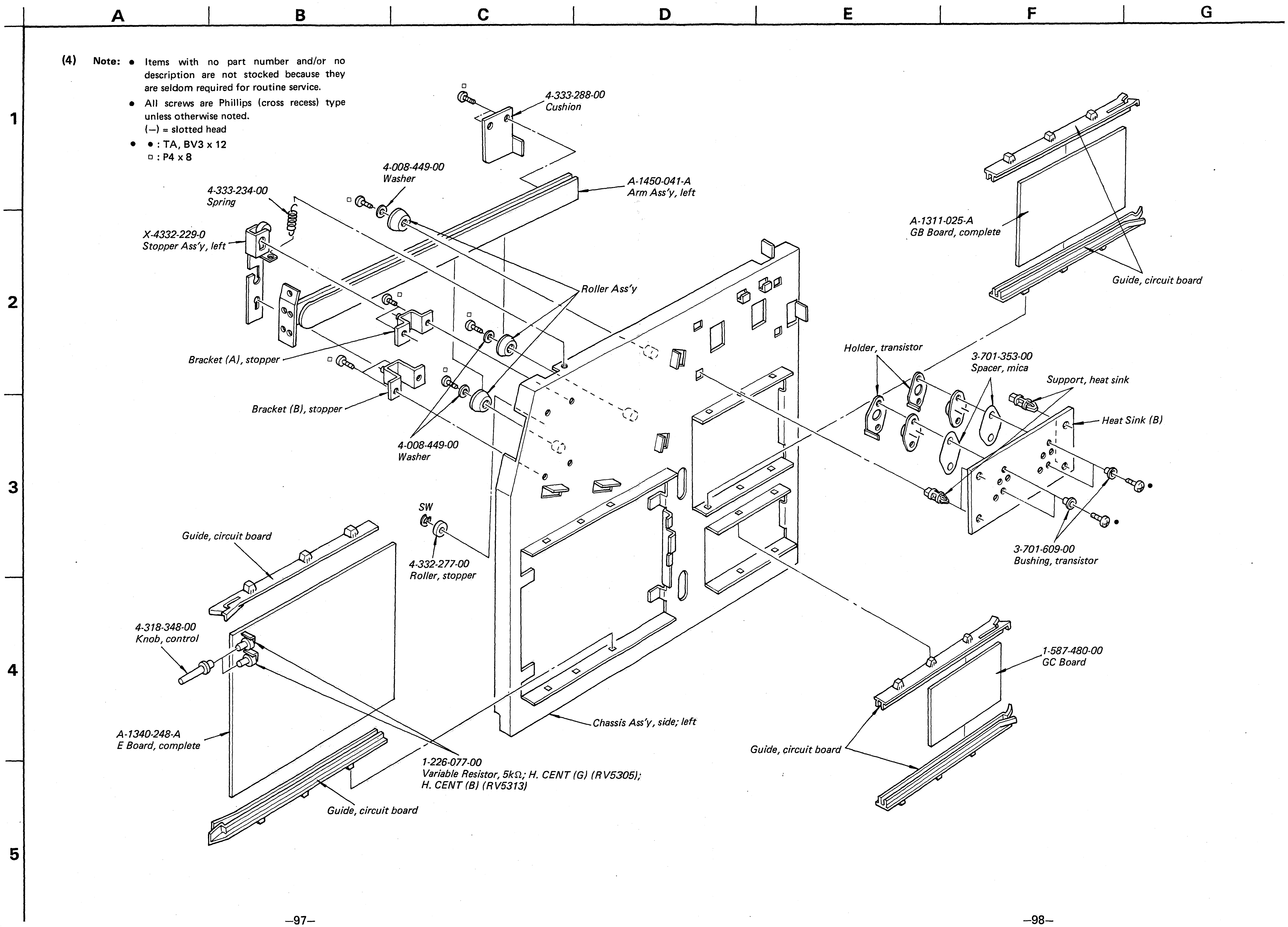
4-302-934-00
TA, PW4 x 12; with washer
3-703-049-01
Label, antenna
1-507-412-XX
Jack, AUDIO IN (J901)
1-509-851-31
Connector, BNC; VIDEO IN (J902)
4-302-934-00
TA, PW4 x 12; with washer
4-332-202-00
Plate, terminal; video
3-701-910-00
Screw, special; with washer
4-325-529-00
Terminal, connector
Supplied with jack.
1-536-537-00
Terminal Board, antenna
4-333-250-00
Stay, control panel
Supplied with connector.
4-333-257-00
Cover, rear; control
X-4332-227-0
Plate Ass'y, left
4-302-934-00
TA, PW4 x 12; with washer
A-1295-199-A
A Board, complete
4-302-934-00
TA, PW4 x 12; with washer
4-309-749-00
Screw, self-tapping; with washer
3-701-910-00
Screw, special; with washer
Bracket, A board; upper
4-302-934-00
TA, PW4 x 12; with washer
A-1270-058-A
Q Board, complete
3-701-832-00
Hinge, circuit board
Bracket, A board; lower
3-701-832-00
Hinge, circuit board
1-534-764-00
Feeder with Terminal
Bracket, Q board
Coaxial Cable with Plug
Bracket, M board
A-1389-167-A
M Board, complete
1-463-119-00
UHF Tuner, BT-842
Coaxial Cable with Plug
Supplied with antenna terminal board.
4-309-749-00
Screw, self-tapping; with washer
Chassis, tuner
1-463-181-00
VHF Tuner, BT-802
Holder, capacitor
1-125-183-11
Capacitor, 3300µF 35V electrolytic (C901)
X-4332-226-0
Plate Ass'y, right
1-536-378-XX
Terminal Strip

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(4) **Note:**
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ● : TA, BV3 x 12
  ▫ : P4 x 8


A
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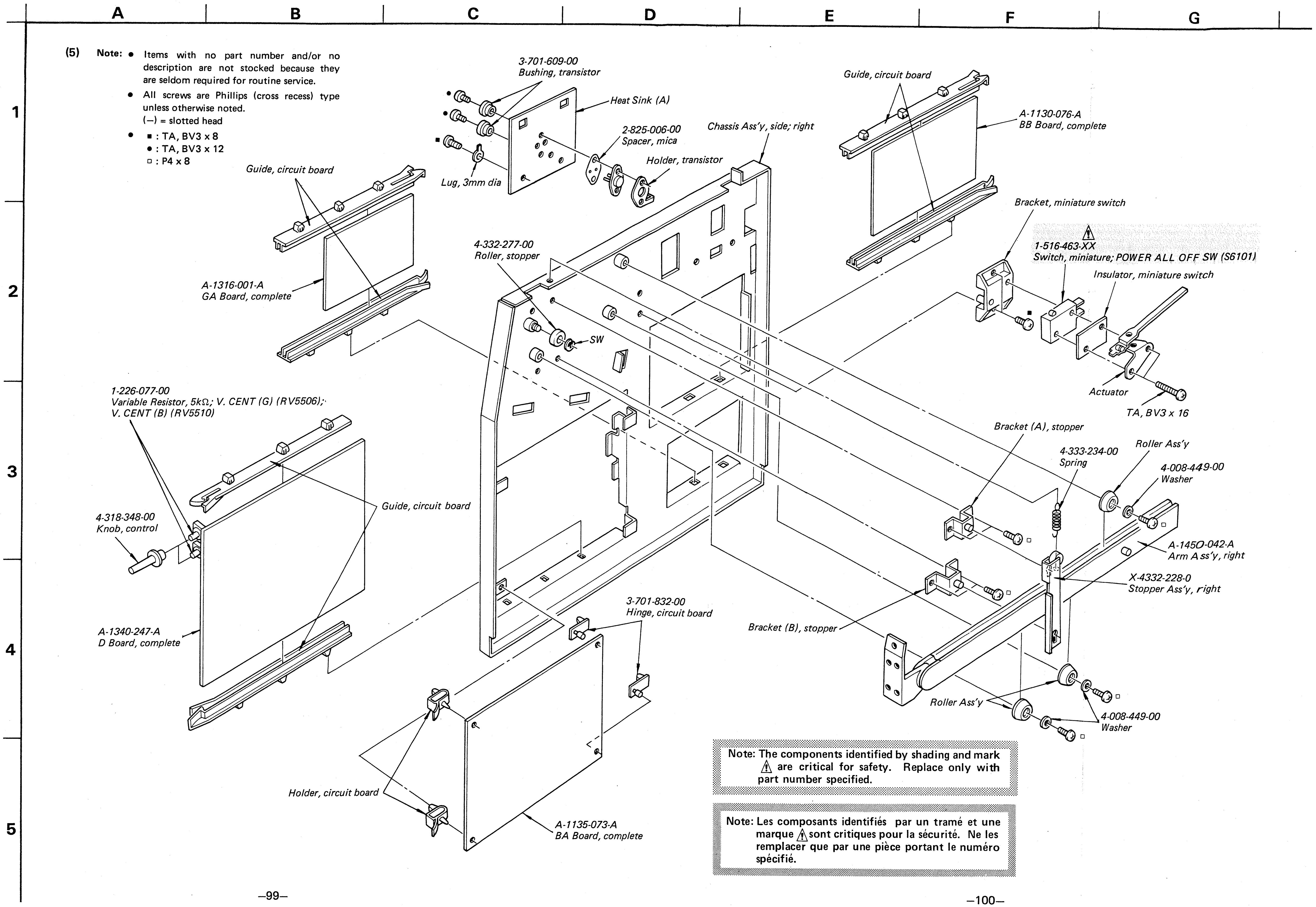
4-333-288-00
Cushion
4-008-449-00
Washer
A-1450-041-A
Arm Ass'y, left
4-333-234-00
Spring
X-4332-229-0
Stopper Ass'y, left
Roller Ass'y
Bracket (A), stopper
Bracket (B), stopper
4-008-449-00
Washer
SW
4-332-277-00
Roller, stopper
Guide, circuit board
4-318-348-00
Knob, control
A-1340-248-A
E Board, complete
1-226-077-00
Variable Resistor, 5kΩ; H. CENT (G) (RV5305);
H. CENT (B) (RV5313)
Guide, circuit board
Chassis Ass'y, side; left
A-1311-025-A
GB Board, complete
Guide, circuit board
Holder, transistor
3-701-353-00
Spacer, mica
Support, heat sink
Heat Sink (B)
3-701-609-00
Bushing, transistor
1-587-480-00
GC Board
Guide, circuit board

(5) **Note:**
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (—) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▫ : P4 x 8


A
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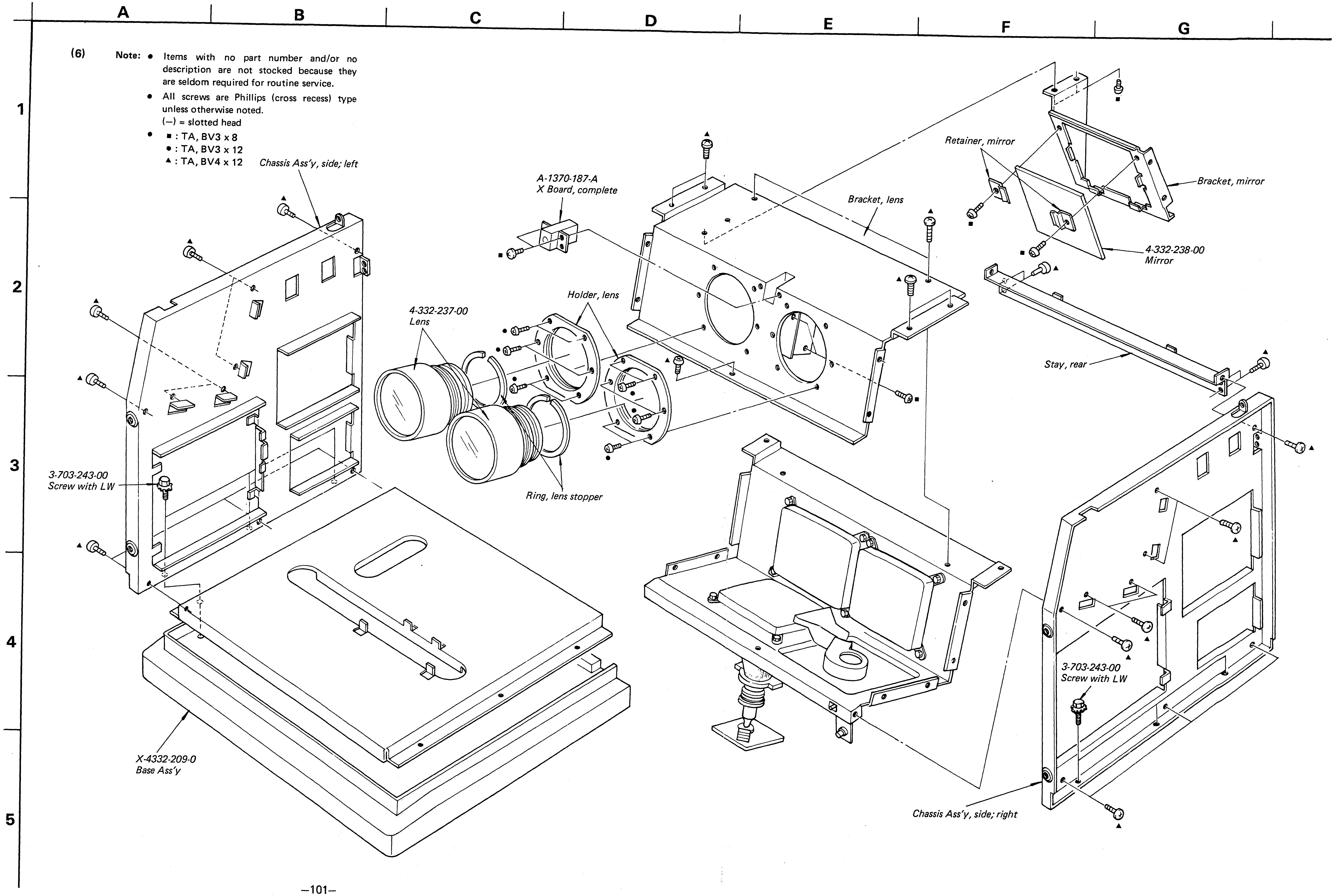
3-701-609-00
Bushing, transistor
Heat Sink (A)
2-825-006-00
Spacer, mica
Holder, transistor
Lug, 3mm dia
Chassis Ass'y, side; right
Guide, circuit board
A-1130-076-A
BB Board, complete
Guide, circuit board
A-1316-001-A
GA Board, complete
4-332-277-00
Roller, stopper
SW
Bracket, miniature switch
1-516-463-XX
Switch, miniature; POWER ALL OFF SW (S6101)
Insulator, miniature switch
Actuator
TA, BV3 x 16
1-226-077-00
Variable Resistor, 5kΩ; V. CENT (G) (RV5506);
V. CENT (B) (RV5510)
Guide, circuit board
4-318-348-00
Knob, control
Bracket (A), stopper
4-333-234-00
Spring
Roller Ass'y
4-008-449-00
Washer
A-1450-042-A
Arm Ass'y, right
X-4332-228-0
Stopper Ass'y, right
A-1340-247-A
D Board, complete
3-701-832-00
Hinge, circuit board
Bracket (B), stopper
Roller Ass'y
4-008-449-00
Washer
Holder, circuit board
A-1135-073-A
BA Board, complete

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(6)

Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12


A
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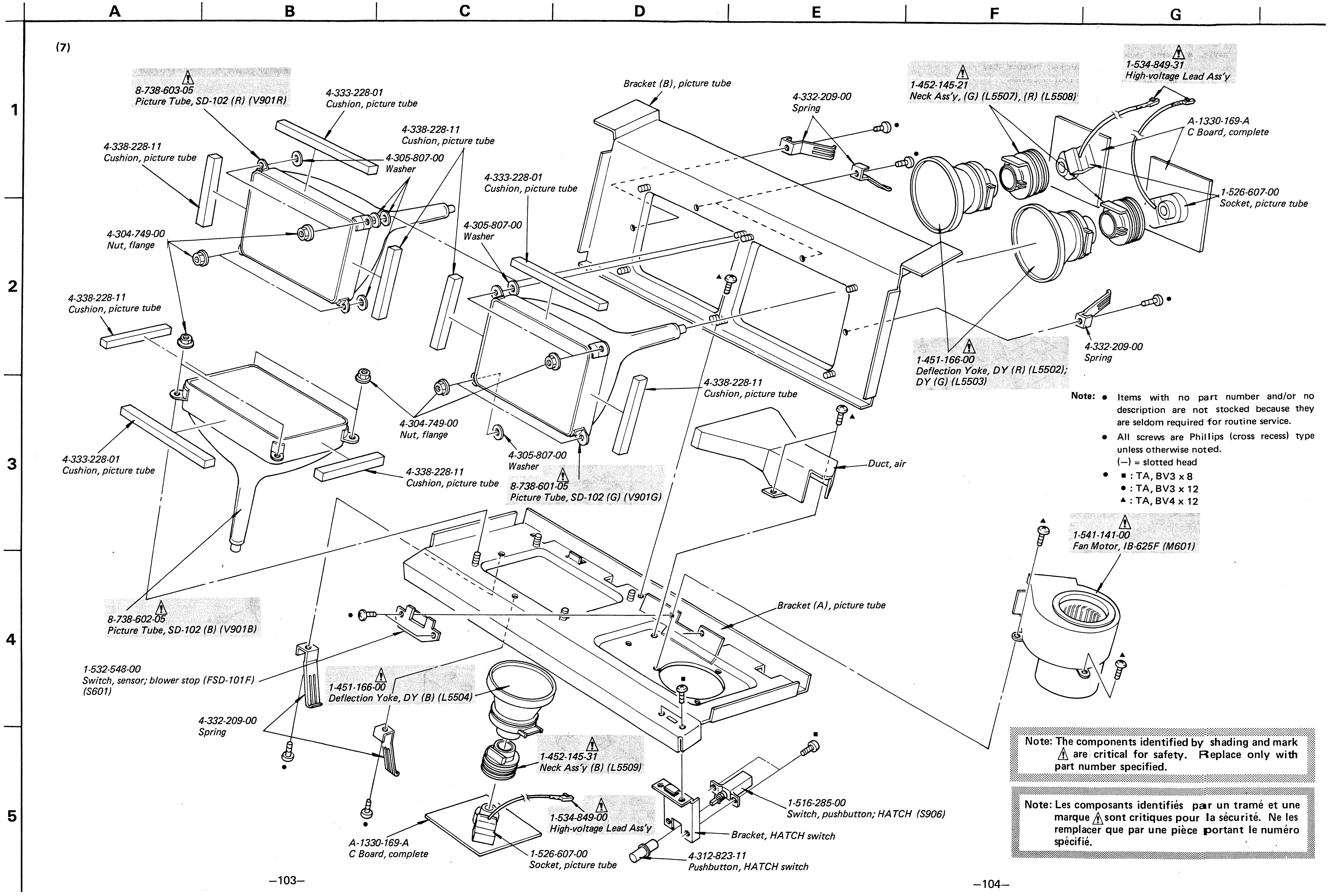
Chassis Ass'y, side; left
A-1370-187-A
X Board, complete
Bracket, lens
Retainer, mirror
Bracket, mirror
4-332-238-00
Mirror
Holder, lens
4-332-237-00
Lens
Stay, rear
3-703-243-00
Screw with LW
Ring, lens stopper
3-703-243-00
Screw with LW
X-4332-209-0
Base Ass'y
Chassis Ass'y, side; right

(7)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⚠ 8-738-603-05
Picture Tube, SD-102 (R) (V901R)
4-333-228-01
Cushion, picture tube
4-338-228-11
Cushion, picture tube
4-305-807-00
Washer
4-338-228-11
Cushion, picture tube
4-304-749-00
Nut, flange
4-333-228-01
Cushion, picture tube
4-305-807-00
Washer
4-338-228-11
Cushion, picture tube
Bracket (B), picture tube
4-332-209-00
Spring
⚠ 1-452-145-21
Neck Ass'y, (G) (L5507), (R) (L5508)
⚠ 1-534-849-31
High-voltage Lead Ass'y
A-1330-169-A
C Board, complete
1-526-607-00
Socket, picture tube
4-332-209-00
Spring
⚠ 1-451-166-00
Deflection Yoke, DY (R) (L5502);
DY (G) (L5503)
4-338-228-11
Cushion, picture tube
4-304-749-00
Nut, flange
4-333-228-01
Cushion, picture tube
4-338-228-11
Cushion, picture tube
4-305-807-00
Washer
⚠ 8-738-601-05
Picture Tube, SD-102 (G) (V901G)
Duct, air
⚠ 1-541-141-00
Fan Motor, IB-625F (M601)
⚠ 8-738-602-05
Picture Tube, SD-102 (B) (V901B)
Bracket (A), picture tube
1-532-548-00
Switch, sensor; blower stop (FSD-101F)
(S601)
⚠ 1-451-166-00
Deflection Yoke, DY (B) (L5504)
4-332-209-00
Spring
⚠ 1-452-145-31
Neck Ass'y (B) (L5509)
⚠ 1-534-849-00
High-voltage Lead Ass'y
A-1330-169-A
C Board, complete
1-526-607-00
Socket, picture tube
1-516-285-00
Switch, pushbutton; HATCH (S906)
Bracket, HATCH switch
4-312-823-11
Pushbutton, HATCH switch

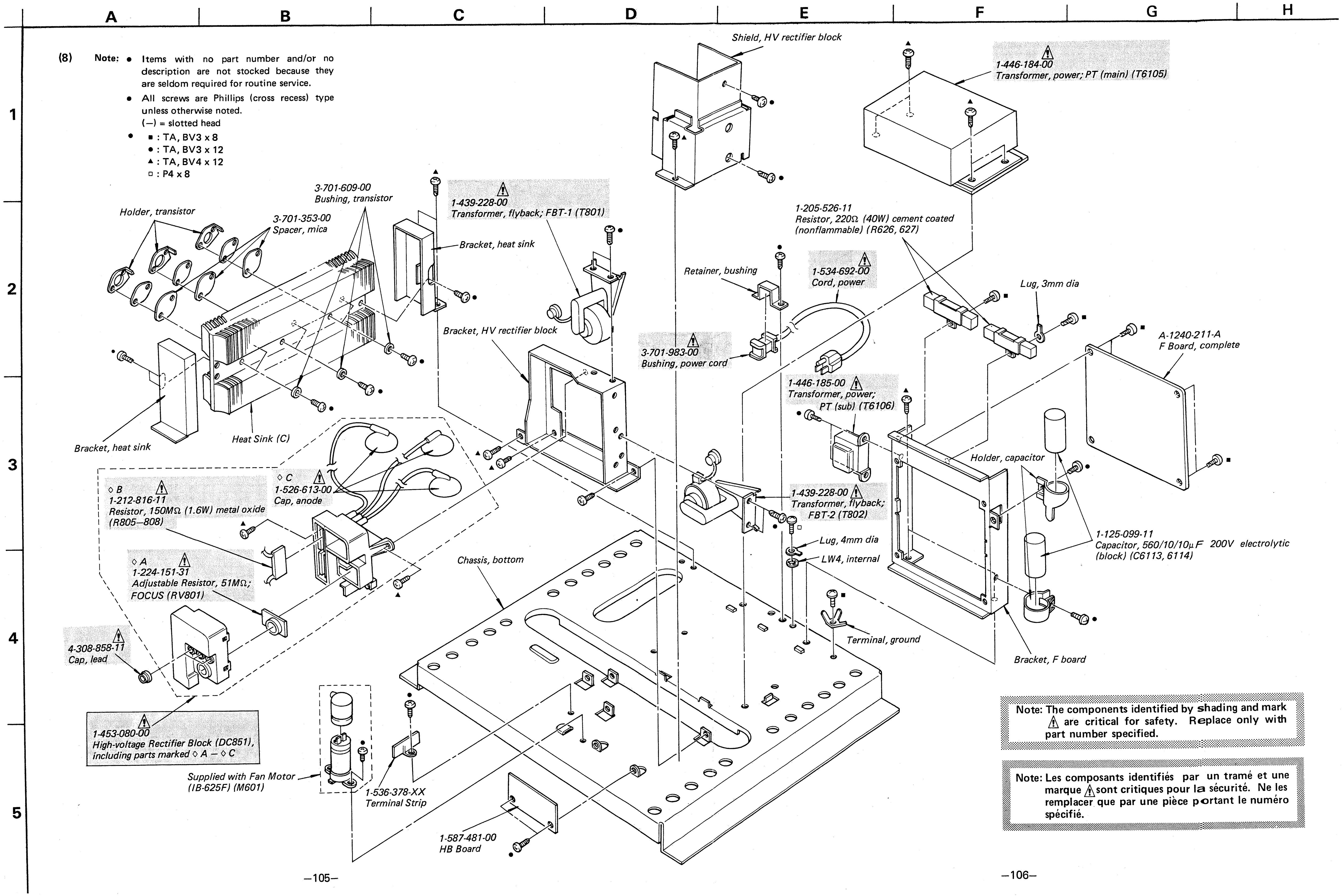
Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(8) **Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12
  ▲ : TA, BV4 x 12
  □ : P4 x 8


A
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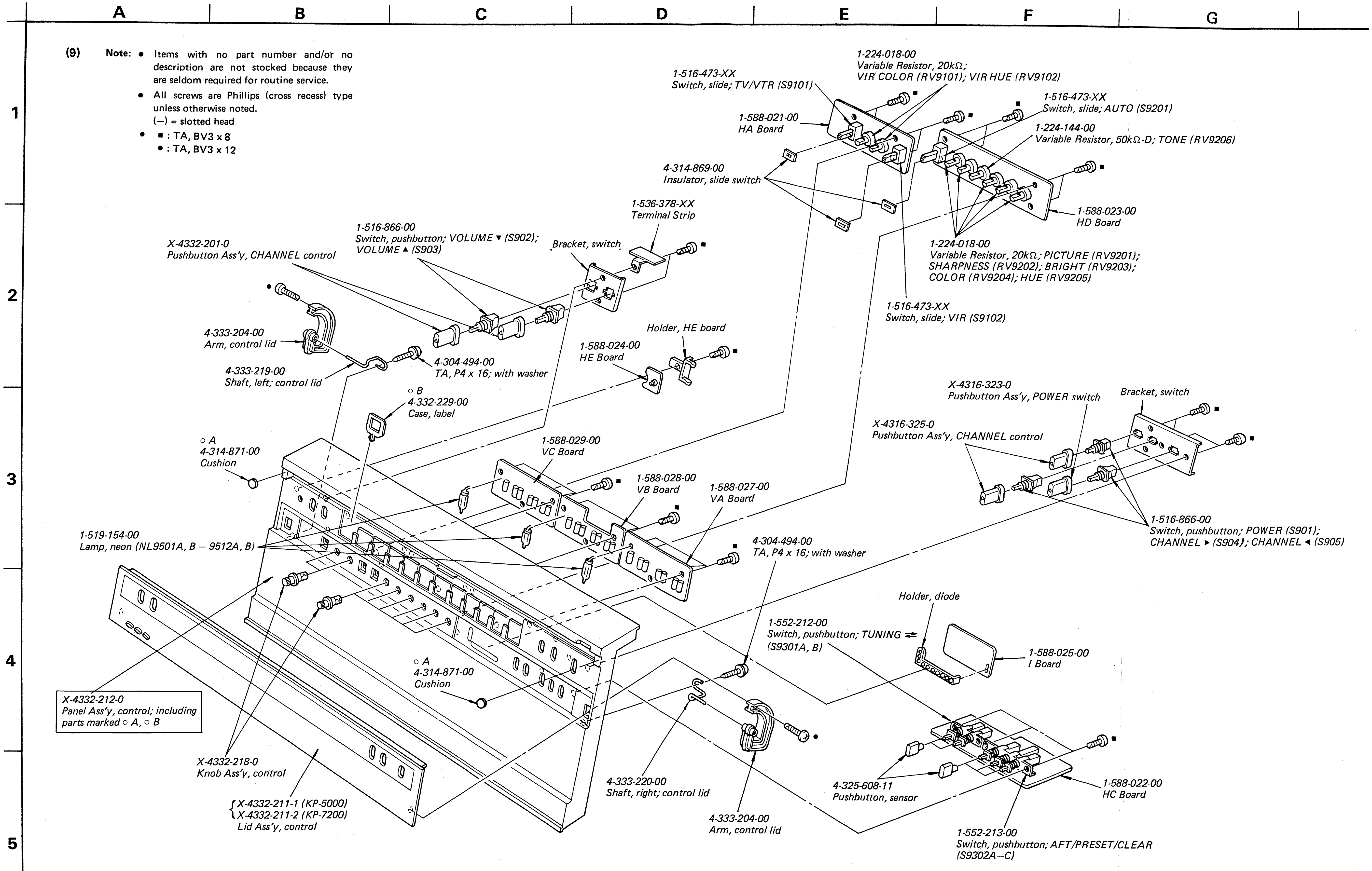
5
Shield, HV rectifier block
⚠ 1-446-184-00
Transformer, power; PT (main) (T6105)
3-701-609-00
Bushing, transistor
⚠ 1-439-228-00
Transformer, flyback; FBT-1 (T801)
Holder, transistor
3-701-353-00
Spacer, mica
Bracket, heat sink
1-205-526-11
Resistor, 220Ω (40W) cement coated (nonflammable) (R626, 627)
Retainer, bushing
⚠ 1-534-692-00
Cord, power
Lug, 3mm dia
Bracket, HV rectifier block
⚠ 3-701-983-00
Bushing, power cord
A-1240-211-A
F Board, complete
1-446-185-00 ⚠
Transformer, power; PT (sub) (T6106)
Bracket, heat sink
Heat Sink (C)
Holder, capacitor
◇ B ⚠
1-212-816-11
Resistor, 150MΩ (1.6W) metal oxide (R805–808)
◇ C ⚠
1-526-613-00
Cap, anode
1-439-228-00 ⚠
Transformer, flyback; FBT-2 (T802)
Lug, 4mm dia
LW4, internal
1-125-099-11
Capacitor, 560/10/10μF 200V electrolytic (block) (C6113, 6114)
◇ A ⚠
1-224-151-31
Adjustable Resistor, 51MΩ; FOCUS (RV801)
Chassis, bottom
⚠ 4-308-858-11
Cap, lead
Terminal, ground
Bracket, F board
⚠ 1-453-080-00
High-voltage Rectifier Block (DC851), including parts marked ◇ A – ◇ C
Supplied with Fan Motor (IB-625F) (M601)
1-536-378-XX
Terminal Strip
1-587-481-00
HB Board

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(9) Note:
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted. (–) = slotted head
- ■ : TA, BV3 x 8
  ● : TA, BV3 x 12


A
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1-224-018-00
Variable Resistor, 20kΩ; VIR COLOR (RV9101); VIR HUE (RV9102)
1-516-473-XX
Switch, slide; TV/VTR (S9101)
1-516-473-XX
Switch, slide; AUTO (S9201)
1-588-021-00
HA Board
1-224-144-00
Variable Resistor, 50kΩ-D; TONE (RV9206)
4-314-869-00
Insulator, slide switch
1-536-378-XX
Terminal Strip
1-588-023-00
HD Board
1-516-866-00
Switch, pushbutton; VOLUME ▾ (S902); VOLUME ▴ (S903)
X-4332-201-0
Pushbutton Ass'y, CHANNEL control
Bracket, switch
1-224-018-00
Variable Resistor, 20kΩ; PICTURE (RV9201); SHARPNESS (RV9202); BRIGHT (RV9203); COLOR (RV9204); HUE (RV9205)
1-516-473-XX
Switch, slide; VIR (S9102)
Holder, HE board
4-333-204-00
Arm, control lid
1-588-024-00
HE Board
4-333-219-00
Shaft, left; control lid
4-304-494-00
TA, P4 x 16; with washer
○ B
4-332-229-00
Case, label
X-4316-323-0
Pushbutton Ass'y, POWER switch
Bracket, switch
X-4316-325-0
Pushbutton Ass'y, CHANNEL control
○ A
4-314-871-00
Cushion
1-588-029-00
VC Board
1-588-028-00
VB Board
1-588-027-00
VA Board
1-519-154-00
Lamp, neon (NL9501A, B – 9512A, B)
4-304-494-00
TA, P4 x 16; with washer
1-516-866-00
Switch, pushbutton; POWER (S901); CHANNEL ▸ (S904); CHANNEL ◂ (S905)
Holder, diode
1-552-212-00
Switch, pushbutton; TUNING ⇄ (S9301A, B)
1-588-025-00
I Board
○ A
4-314-871-00
Cushion
X-4332-212-0
Panel Ass'y, control; including parts marked ○ A, ○ B
X-4332-218-0
Knob Ass'y, control
4-333-220-00
Shaft, right; control lid
4-325-608-11
Pushbutton, sensor
1-588-022-00
HC Board
{X-4332-211-1 (KP-5000)
X-4332-211-2 (KP-7200)
Lid Ass'y, control
4-333-204-00
Arm, control lid
1-552-213-00
Switch, pushbutton; AFT/PRESET/CLEAR (S9302A–C)

SECTION 7
ELECTRICAL PARTS LIST

TUNERS AND CIRCUIT BOARDS

Ref. No.	*Part No.*	*Description*
	⚠1-463-119-00	UHF Tuner, BT-842
	⚠1-463-181-00	VHF Tuner, BT-802
	1-587-480-00	GC Board
	1-587-481-00	HB Board
	1-588-021-00	HA Board
	1-588-022-00	HC Board
	1-588-023-00	HD Board
	1-588-024-00	HE Board
	1-588-025-00	I Board
	1-588-027-00	VA Board
	1-588-028-00	VB Board
	1-588-029-00	VC Board
	A-1130-076-A	BB Board, complete
	A-1135-073-A	BA Board, complete
	A-1240-211-A	F Board, complete
	A-1270-058-A	Q Board, complete
	A-1295-199-A	A Board, complete
	A-1311-025-A	GB Board, complete
	A-1316-001-A	GA Board, complete
	A-1330-169-A	C Board, complete
	A-1340-247-A	D Board, complete
	A-1340-248-A	E Board, complete
	A-1370-187-A	X Board, complete
	A-1389-167-A	M Board, complete

SEMICONDUCTORS

Transistors

Ref. No.	*Part No.*	*Description*
Q201		2SC634A
Q203		2SA677
Q301		2SC403C
Q302		2SC1364
Q303		2SA678
Q304		2SC1364
Q305		2SA678
Q306		2SC1384
Q307–309		2SC403C
Q310		2SC1364

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*
Q401, 402		2SC1364
Q403		2SA678
Q406–417		2SC1364
Q418		2SC403C
Q419, 420		2SC1364
Q601		2SC867
Q602		2SC1670
Q603		2SC1475
Q604		2SC1364
Q605, 606		2SC1114
Q607		2SC867
Q701R,G,B		2SC1723
Q801		2SD725
Q1101		2SK23A
Q1102		2SC633A
Q1103		2SA733
Q1104,1105		2SC633A
Q1401–1410		2SC634A
Q1411		2SA678
Q1412		2SC1124
Q1413		2SC1061
Q1414		2SA671
Q1415		2SC1383
Q1416,1417		2SC634A
Q2101		2SC1475
Q2102–2105		2SC634A
Q2201		2N3904
Q2202		2SC634A
Q2203–2205		2SA733
Q2206–2210		2SC634A
Q2211		2SA733
Q4001		2SC1364
Q4002		2SA678
Q4003		2SC1364
Q4004		2SC2135
Q4005		2SC1364
Q4007,4008		2SC2135
Q4009–4013		2SC1364

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*
Q4014		2SA678
Q4016,4017		2SC1364
Q4018		2SC2135
Q4020		2SC1364
Q4021–4025		2SC2135
Q4026,4027		2SC1364
Q4028		2SC2135
Q4029		2SA678
Q4030–4032		2SC1364
Q4033		2SA678
Q4034–4040		2SC1364
Q4041		2SC2135
Q4042–4044		2SC1364
Q4045,4046		2SA678
Q4047–4049		2SC1364
Q5101–5103		2SC1364
Q5104		2SC867
Q5301		2SC1890A
Q5302		2SD478
Q5303		2SC1364
Q5304		2SC1890A
Q5305		2SA678
Q5306,5307		2SC1364
Q5308		2SA678
Q5309		2SC1475
Q5310		2SA773
Q5311		2SC1890A
Q5312		2SD478
Q5313		2SC1364
Q5314		2SC1890A
Q5315,5316		2SC1364
Q5317		2SA678
Q5318		2SC1475
Q5319		2SA773
Q5320		2SC1890A
Q5321		2SC1364
Q5322		2SD478
Q5323		2SC1890A
Q5324,5325		2SC1364
Q5326		2SA678

Ref. No.	*Part No.*	*Description*
Q5327		2SC1475
Q5328		2SA773
Q5329		2SD725
Q5501,5502		2SA678
Q5503		2SC1670
Q5504		2SD478
Q5505		2SB568
Q5506		2SA678
Q5507,5508		2SC1364
Q5509		2SA678
Q5510		2SC1475
Q5511,5512		2SA678
Q5513		2SC1670
Q5514		2SD478
Q5515		2SB568
Q5516		2SA678
Q5517,5518		2SC1364
Q5519		2SA678
Q5520		2SC1475
Q5521,5522		2SA678
Q5523		2SC1670
Q5524		2SD478
Q5525		2SB568
Q5526		2SA678
Q5527,5528		2SC1364
Q5529		2SA678
Q5530		2SC1475
Q5531–5533		2SC1364
Q5534,5535		2SA678
Q5540		2SC1475
Q5541		2SA678
Q5542		2SC1475
Q5543–5545		2SC1364
Q5546		2SC1475
Q6201		2SD478
Q6202		2SC1890A
Q6203		2SD478
Q6204–6206		2SC1364
Q6207		2SA678

Ref. No.	*Part No.*	*Description*
Q6208		2SC1364
Q6209		2SC1890A
Q6210		2SA678
Q6211,6212		2SC1364
Q6213		2SC1475
Q6214		2SC1116A
Q9201		2SC631A

ICs

Ref. No.	*Part No.*	*Description*
IC151		TA7070P
IC201		CX100D
IC202		CX095C
IC301		CX172
IC302		CX173
IC1401		CX095C
IC2101		CX755
IC2201		CX760
IC2202		CX185
IC2203		CX761
IC2301		M51901
IC4001		μPC1485C
IC4002		TP4361A

Diodes

Ref. No.	*Part No.*	*Description*
D201, 202		1S1555
D301–306		1S1555
D307		SIB01-02
D401–403		1S1555
D407–414		1S1555
D601		SIB01-02
D602		EQA01-08S
D603		EQA01-06S
D604		V06C
D801, 802		SB2B

Ref. No.	*Part No.*	*Description*
D1101		1T30
D1401,1402		1S1555
D1403,1404		VD1220
D1405		EQA01-25R
D2101		EQA01-12S
D2201		μPC574J
D2202–2205		1S1555
D2301–2309		TLR124
D2310		TLY124
D2311		TLG124
D4001		1S1555
D4003,4004		
D4006–4008		
D4009		HF1A
D4010		1S1555
D5101–5104		1S1555
D5301		HF1A
D5302		ERC26-15
D5303		S34
D5304,5305		1S1555
D5306–5308		HF1A
D5309		ERC26-15
D5310		S34
D5311,5312		1S1555
D5313–5315		HF1A
D5316		ERC26-15
D5317		S34
D5318,5319		1S1555
D5320,5321		HF1A
D5322		V11N
D5323		ERC26-15
D5324		V11N
D5501–5505		1S1555
D5506		EQA01-25R
D5507		EQA01-08S
D5508–5512		1S1555
D5513		EQA01-25R

Ref. No.	*Part No.*	*Description*
D5514		EQA01-08S
D5515–5519		1S1555
D5520		EQA01-25R
D5521		EQA01-08S
D5522		EQA01-05S
D5523		EQA01-06S
D5524		1S1555
D5525		V06C
D5526		1S1555
D6101		S5151
D6102		S5151R
D6103–6106		U05E
D6107–6109		SIB01-02
D6201		EQA01-10R
D6202–6204		V06C
D6205		EQA01-11S
D6206		1S1555
D6207		EQA01-10R
D6208,6209		V06C
D6210–6213		1S1555
D6215		1S1555
D6216		SIB01-02
D9401		SEL103R

Thyristor

D6214		CV12E

Miscellaneous

TH201	1-800-198-XX	Thermistor, S-1250

COILS

All coils are microinductors unless otherwise noted.

Ref. No.	*Part No.*	*Description*
L154	1-403-904-00	AFT-1
L155	1-403-905-00	AFT-2
L156	1-403-962-00	AFT-3
L203	1-407-184-XX	3.3μH
L204	1-407-171-XX	150μH
L206	1-407-184-XX	3.3μH
L207, 209 L214	1-407-189-XX	8.2μH
L217	1-407-180-XX	1.5μH
L219	1-407-189-XX	8.2μH
L220	1-407-178-XX	1μH
L301	1-407-191-XX	470μH
L302	1-407-207-XX	12mH
L303	1-407-157-XX	10μH
L304	1-407-159-XX	15μH
L305	1-407-175-XX	330μH
L306	1-407-186-XX	4.7μH
L307	1-407-189-XX	8.2μH
L308	1-407-169-XX	100μH
L309	1-407-161-XX	22μH
L310	1-407-164-XX	39μH
L311	1-407-191-XX	470μH
L401	1-407-191-XX	470μH
L402	1-407-169-XX	100μH
L403	1-407-166-XX	56μH
L404–406	1-407-191-XX	470μH
L601	1-407-346-00	200μH, spook choke
L701R,G,B	1-407-195-XX	1mH
L702R,G,B L703R,G,B	1-407-364-00	3.3μH, spook choke
L801	1-421-350-00	HCA
L1101	1-409-315-00	Coil
L1102	1-425-914-00	Coil, resonance
L1401	1-407-158-XX	12μH
L1402	1-407-187-XX	5.6μH
L2101	1-405-725-00	40kHz, OSC
L2202	1-409-193-00	3.58MHz Trap
L4001	1-407-169-XX	100μH
L4002	1-407-211-XX	27μH
L4003	1-407-191-XX	470μH
L5301–5303	1-407-202-XX	4.7mH
L5304–5306	1-459-075-00	3.3mH
L5501	1-407-169-XX	100μH
L5502	⚠1-451-166-00	Deflection Yoke, DY (R)
L5503	⚠1-451-166-00	Deflection Yoke, DY (G)
L5504	⚠1-451-166-00	Deflection Yoke, DY (B)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*
L5507	⚠1-452-145-21	Neck Ass'y (G)
L5508	⚠1-452-145-21	Neck Ass'y (R)
L5509	⚠1-452-145-31	Neck Ass'y (B)
L6201,6202	1-407-720-00	100μH, spook choke
DL301	1-415-106-00	Delay Line

TRANSFORMERS AND FILTER

Ref. No.	*Part No.*	*Description*
CF201	1-527-260-00	Ceramic Filter
T201	1-409-213-00	VIFT-T1, 41.25MHz Trap
T202	1-403-961-00	VIFT-1
T203	1-409-264-00	VIFT-T2, 39.75MHz Trap
T204	1-409-219-00	VIFT-T3, 47.25MHz Trap
T205	1-403-925-00	VIFT-2
T206	1-403-927-00	VIFT-3
T207	1-403-928-00	VIFT-4
T208	1-409-263-00	VIFT-T4, 41.25MHz Trap
T209	1-403-926-00	VIFT-5
T210	1-403-924-00	VIFT-6
T211	1-409-146-00	4.5MHz Trap
T213	1-403-871-00	SIFT-2
T214	1-409-262-00	49MHz Trap
T301	1-409-193-00	3.58MHz Trap
T302	1-425-786-00	Bandpass, BPT
T303	1-425-848-00	Burst Amplifier, BAT
T401	1-425-618-00	Continuous-wave Oscillation, COT
T801	⚠1-439-228-00	Flyback, FBT-1
T802	⚠1-439-228-00	Flyback, FBT-2
T5101	1-437-076-00	Horizontal Drive, HDT-1
T5102	1-437-076-00	Horizontal Drive, HDT-2
T5301	1-439-137-00	Horizontal Output, HOT-1
T5302	1-439-097-31	Horizontal Output, HOT-4
T5303	1-439-230-00	Line Output, LOT-1
T5304	1-439-137-00	Horizontal Output, HOT-2
T5305	1-439-097-31	Horizontal Output, HOT-5
T5306	1-439-230-00	Line Output, LOT-2
T5307	1-439-137-00	Horizontal Output, HOT-3
T5308	1-439-097-31	Horizontal Output, HOT-6
T5309	1-439-230-00	Line Output, LOT-3
T5310	1-439-229-00	Line Output, LOT-4
T6101	⚠1-421-259-00	Line Filter, LFT-1
T6102	⚠1-421-259-00	Line Filter, LFT-2
T6103	⚠1-421-259-00	Line Filter, LFT-3
T6104	⚠1-421-259-00	Line Filter, LFT-4
T6105	⚠1-446-184-00	Power, PT (main)
T6106	⚠1-446-185-00	Power, PT (sub)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics.
p : $\mu\mu$F, elect : electrolytic

Ref. No.	*Part No.*	*Description*		
C104	1-121-404-11	33	25V	elect
C105	1-102-129-11	0.01		
C151, 153 C154	1-102-121-11	0.0022		
C155	1-101-586-11	0.75p		
C156	1-102-519-11	36p		
C157	1-102-493-11	62p		
C158, 159	1-102-121-11	0.0022		
C160	1-102-043-11	1000p	500V	
C161, 162	1-102-121-11	0.0022		
C163	1-102-937-11	4p		
C205	1-121-404-11	33	25V	elect
C206	1-102-529-11	100p		
C207	1-101-886-11	62p		
C208	1-102-121-11	0.0022		
C209	1-102-850-11	56p		
C210	1-102-863-11	82p		
C211	1-121-651-11	10	16V	elect
C212	1-102-121-11	0.0022		
C213	1-121-404-11	33	25V	elect
C214	1-102-121-11	0.0022		
C216	1-102-973-00	100p		
C217	1-121-651-11	10	16V	elect
C218	1-102-121-11	0.0022		
C219	1-102-973-00	100p		
C220	1-102-858-11	10p		

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*		
C221, 223	1-102-121-11	0.0022		
C224	1-102-973-00	100p		
C225	1-102-121-11	0.0022		
C226	1-121-651-11	10	16V	elect
C227, 228	1-102-121-11	0.0022		
C229	1-121-450-00	2.2	50V	elect
C230	1-108-381-12	0.022	100V	mylar
C231	1-102-114-11	470p		
C232	1-121-391-11	1	50V	elect
C233	1-102-947-00	10p		
C234	1-102-979-11	240p		
C235	1-121-426-51	470	16V	elect
C236	1-101-006-11	0.047		
C237	1-102-973-00	100p		
C240	1-102-855-11	15p		
C241	1-102-074-00	0.001		
C242	1-101-006-11	0.047		
C243	1-102-121-11	0.0022		
C244	1-121-651-11	10	16V	elect
C246	1-108-377-12	0.01	100V	mylar
C248	1-121-726-00	0.47	50V	elect
C253	1-102-074-00	0.001		
C255	1-108-369-12	0.0022	100V	mylar
C257	1-102-121-11	0.0022		
C259	1-121-479-11	22	16V	elect
C261	1-108-389-12	0.1	100V	mylar
C262, 263	1-102-121-11	0.0022		
C271, 272	1-121-651-11	10	16V	elect
C273	1-102-882-11	4p		
C281, 282	1-102-121-11	0.0022		
C283	1-102-973-00	100p		
C301	1-121-410-00	47	25V	elect
C302	1-121-421-51	220	16V	elect
C303, 304	1-121-398-11	10	25V	elect
C305	1-121-391-11	1	50V	elect
C306	1-161-023-11	0.068		(semiconductor)
C307	1-121-450-00	2.2	50V	elect
C308	1-102-823-11	470p		
C309	1-121-726-11	0.47	50V	elect
C310	1-121-416-11	100	25V	elect
C311	1-161-013-11	0.01		(semiconductor)
C312	1-102-978-00	220p		
C313	1-102-824-11	470p		
C314	1-102-957-51	18p		
C315	1-121-403-51	33	16V	elect
C316	1-101-006-00	0.047		
C317	1-102-935-00	2p		
C318	1-102-512-11	16p		
C319	1-101-004-00	0.01		
C320–323	1-121-391-11	1	50V	elect
C324	1-101-361-11	150p		
C325, 326	1-101-004-00	0.01		
C327, 328	1-102-858-11	10p		
C329	1-108-389-11	0.1	100V	mylar
C330	1-101-888-11	68p		
C331, 332	1-121-651-11	10	16V	elect
C333	1-101-004-00	0.01		
C334	1-102-822-11	390p		
C335	1-101-004-00	0.01		
C336	1-101-888-11	68p		
C337	1-101-004-00	0.01		
C338	1-102-963-11	33p		
C339	1-102-888-11	150p		
C340	1-121-409-11	47	16V	elect
C341	1-121-479-11	22	16V	elect
C342	1-102-945-00	8p		
C343	1-101-004-00	0.01		
C344	1-101-881-51	47p		
C345	1-102-943-00	6p		
C346	1-102-121-11	0.0022		
C347	1-121-651-11	10	16V	elect
C348	1-121-392-11	3.3	25V	elect
C349	1-121-391-11	1	50V	elect
C350	1-121-410-00	47	25V	elect
C351	1-108-242-11	0.022		mylar
C352	1-123-252-11	1	160V	elect
C354–356	1-102-824-11	470p		
C357	1-101-004-00	0.01		
C358	1-121-391-11	1	50V	elect
C401 C404,405	1-108-242-11	0.022		mylar
C406	1-108-239-11	0.01		mylar

Ref. No.	*Part No.*	*Description*		
C407	1-102-823-11	470p		
C408	1-108-421-12	0.01	200V	mylar
C409	1-108-242-11	0.022		mylar
C410	1-108-227-11	0.001		mylar
C411	1-121-404-11	33	25V	elect
C412	1-108-227-11	0.001		mylar
C413	1-121-404-11	33	25V	elect
C414	1-102-971-00	82p		
C415	1-102-973-00	100p		
C416	1-121-404-11	33	25V	elect
C417	1-102-965-00	39p		
C418	1-102-973-00	100p		
C419, 420	1-101-979-11	10p		
C421, 422	1-101-006-00	0.047		
C423	1-102-527-11	82p		
C424	1-101-006-00	0.047		
C425, 426	1-102-477-11	30p		
C427–430	1-102-961-11	27p		
C431, 432	1-102-959-00	22p		
C435	1-101-006-00	0.047		
C436	1-121-398-11	10	25V	elect
C601	1-123-022-11	22	250V	elect
C602	1-108-704-11	0.1	200V	mylar
C603	1-121-246-00	4.7	160V	elect
C604	1-121-757-11	33	160V	elect
C605	1-102-050-11	0.01	500V	
C606	1-121-411-11	47	50V	elect
C607	1-108-849-11	0.1		mylar
C608	1-121-738-11	10	50V	elect
C609	1-121-417-51	100	50V	elect
C701R,G,B	1-123-028-00	2.2	350V	elect
C702R,G,B	1-121-963-11	33	25V	elect
C703R,G,B	1-102-267-11	0.0068	500V	
C704R,G,B	1-102-155-11	330p	2kV	
C705R,G,B	1-129-924-11	0.016	1kV	polyethylene
C801	1-108-546-11	1.5	400V	mylar
C802–805	⚠1-129-924-11	0.016	1.5kV	polyethylene
C806, 807	1-108-546-11	1.5	400V	mylar
C808	1-108-704-11	0.1	200V	mylar
C901	1-125-183-11	3300	35V	elect
C1101	1-121-398-11	10	25V	elect
C1102	1-102-816-00	120p		
C1104,1105	1-161-185-11	0.01		(semiconductor)
C1106	1-121-398-11	10	25V	elect
C1107	1-161-185-11	0.01		(semiconductor)
C1108	1-102-115-11	560p		
C1109	1-121-391-11	1	50V	elect
C1110	1-121-398-11	10	25V	elect
C1402	1-102-980-11	270p		
C1403	1-121-421-51	220	16V	elect
C1404	1-102-959-00	22p		
C1405	1-102-978-00	220p		
C1406	1-121-651-11	10	16V	elect
C1407	1-121-395-11	4.7	25V	elect
C1408	1-121-409-11	47	16V	elect
C1409	1-101-888-00	68p		
C1410	1-102-978-00	220p		
C1411	1-121-651-11	10	16V	elect
C1412	1-121-395-11	4.7	25V	elect
C1413	1-121-657-11	1000	25V	elect
C1414	1-121-422-11	220	25V	elect
C1415	1-121-651-11	10	16V	elect
C1416	1-102-973-00	100p		
C1417	1-121-480-11	22	25V	elect
C1418	1-121-651-11	10	16V	elect
C1420	1-121-480-11	22	25V	elect
C1421	1-102-824-11	470p		
C1422	1-121-398-11	10	25V	elect
C1423	1-121-391-11	1	50V	elect
C1424	1-121-651-11	10	16V	elect
C1425	1-121-391-11	1	50V	elect
C1426	1-102-121-11	0.0022		
C1427	1-121-391-11	1	50V	elect
C1428,1429	1-102-121-11	0.0022		
C1430	1-121-421-51	220	16V	elect
C1431	1-108-389-12	0.1	100V	mylar
C1432	1-121-361-11	470	35V	elect
C1433	1-121-403-51	33	16V	elect
C1434	1-108-365-12	0.001	100V	mylar
C1435	1-102-976-11	180p		
C1436	1-121-421-51	220	16V	elect

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*		
C1437	1-102-953-00	18p		
C1438	1-121-415-11	100	16V	elect
C1439	1-121-733-11	470	25V	elect
C1440	1-121-409-11	47	16V	elect
C1441	1-121-403-51	33	16V	elect
C2101	1-121-398-11	10	25V	elect
C2102	1-121-415-11	100	16V	elect
C2103	1-161-063-11	0.1		(semiconductor)
C2104,2105	1-121-726-11	0.47	50V	elect
C2106	1-101-004-11	0.01		
C2107	1-121-651-11	10	16V	elect
C2108	1-121-450-00	2.2	50V	elect
C2109	1-121-651-00	10	16V	elect
C2110	1-121-738-11	10	50V	elect
C2201	1-102-824-11	470p		
C2202,2203	1-102-973-61	100p		
C2204	1-108-393-12	0.22	100V	mylar
C2205	1-108-385-12	0.047	100V	mylar
C2206	1-108-387-12	0.068	100V	mylar
C2207	1-121-403-51	33	16V	elect
C2208	1-102-973-11	100p		
C2209	1-121-395-11	4.7	25V	elect
C2212	1-121-738-11	10	50V	elect
C2213	1-108-377-12	0.01	100V	mylar
C2214	1-121-391-11	1	50V	elect
C2215,2216	1-102-121-11	0.0022		
C2218	1-121-403-51	33	16V	elect
C2219	1-108-381-12	0.022	100V	mylar
C2220	1-101-882-00	50p	500V	
C2221	1-108-387-12	0.068	100V	mylar
C2222	1-102-074-11	0.001		
C2223	1-121-391-00	1	50V	elect
C2301	1-101-923-11	0.01		
C4001	1-121-403-51	33	16V	elect
C4002	1-108-812-11	0.047		mylar
C4003	1-101-340-51	120p		
C4004	1-121-403-51	33	16V	elect
C4005	1-101-340-51	120p		
C4006	1-108-251-12	0.1		mylar
C4007	1-121-651-11	10	16V	elect

Ref. No.	*Part No.*	*Description*		
C4008	1-121-403-51	33	16V	elect
C4009	1-121-651-11	10	16V	elect
C4010	1-121-726-11	0.47	50V	elect
C4011	1-121-651-11	10	16V	elect
C4012	1-121-726-11	0.47	50V	elect
C4013	1-108-812-11	0.047		mylar
C4014	1-101-340-51	120p		
C4015	1-121-403-51	33	16V	elect
C4016	1-101-340-51	120p		
C4017	1-108-251-12	0.1		mylar
C4018	1-102-965-00	39p		
C4019	1-121-651-11	10	16V	elect
C4020	1-108-251-12	0.1		mylar
C4021	1-121-651-11	10	16V	elect
C4022	1-102-959-00	22p		
C4023	1-108-244-12	0.033		mylar
C4024	1-108-230-12	0.0022		mylar
C4025	1-108-244-12	0.033		mylar
C4026	1-121-726-11	0.47	50V	elect
C4027	1-102-973-00	100p		
C4028	1-101-810-11	100p	500V	
C4029	1-102-973-00	100p		
C4030	1-108-792-11	0.001		mylar
C4031	1-102-959-00	22p		
C4032	1-108-792-11	0.001		mylar
C4033	1-101-884-00	56p		
C4034	1-102-959-00	22p		
C4035	1-102-976-11	180p		
C4036	1-102-983-51	220p		
C4037	1-121-726-11	0.47	50V	elect
C4038	1-101-006-00	0.047		
C4039	1-121-421-51	220	16V	elect
C4040	1-101-006-00	0.047		
C4041	1-121-416-11	100	25V	elect
C4042	1-121-651-11	10	16V	elect
C4043	1-101-006-00	0.047		
C4044	1-121-409-11	47	16V	elect
C4045	1-101-006-00	0.047		
C4046	1-102-971-00	82p		
C4047	1-121-651-11	10	16V	elect

Ref. No.	*Part No.*	*Description*		
C5101	1-121-391-11	1	50V	elect
C5102,5103	1-108-377-12	0.01	100V	mylar
C5104	1-121-415-11	100	16V	elect
C5105	1-108-385-12	0.047	100V	mylar
C5106	1-121-391-11	1	50V	elect
C5107	1-102-232-00	470p	500V	
C5108	1-121-395-11	4.7	25V	elect
C5109	1-108-389-12	0.1	100V	mylar
C5110	1-102-973-00	100p		
C5111,5112	1-108-911-11	0.0022	100V	mylar
C5113	1-102-973-00	100p		
C5114	1-121-396-11	4.7	50V	elect
C5115	1-121-404-11	33	25V	elect
C5116	1-108-704-11	0.1	200V	mylar
C5117	1-121-757-00	33	160V	elect
C5118	1-108-385-12	0.047	100V	mylar
C5119	1-101-810-11	100p	500V	
C5120	1-129-935-11	500p	1.5kV	polyethylene
C5301	1-121-738-11	10	50V	elect
C5302	1-121-411-11	47	50V	elect
C5303	1-123-116-11	1	160V	elect
C5304	1-129-935-00	4500p	1.5kV	polyethylene
C5305	1-129-883-21	0.56	400V	polyethylene
C5306	1-108-431-12	0.068	200V	mylar
C5307	1-121-736-11	1000	10V	elect
C5308	1-121-395-11	4.7	25V	elect
C5309	1-121-391-11	1	50V	elect
C5310	1-121-246-00	4.7	160V	elect
C5311	1-108-377-12	0.01	100V	mylar
C5312,5313	1-121-414-11	100	10V	elect
C5314	1-121-757-00	33	160V	elect
C5315	1-121-738-11	10	50V	elect
C5316	1-121-411-11	47	50V	elect
C5317	1-123-116-11	1	160V	elect
C5318	1-129-935-00	4500p	1.5kV	polyethylene
C5319	1-129-883-21	0.56	400V	polyethylene
C5320	1-108-431-12	0.068	200V	mylar
C5321	1-121-736-11	1000	10V	elect
C5322	1-121-395-11	4.7	25V	elect
C5323	1-121-246-00	4.7	160V	elect
C5324	1-108-377-12	0.01	100V	mylar

Ref. No.	*Part No.*	*Description*		
C5325,5326	1-121-414-11	100	10V	elect
C5327	1-121-738-11	10	50V	elect
C5328	1-121-411-11	47	50V	elect
C5329	1-123-116-11	1	160V	elect
C5330	1-129-935-00	4500p	1.5kV	polyethylene
C5331	1-129-883-21	0.56	400V	polyethylene
C5332	1-108-431-12	0.068	200V	mylar
C5333	1-121-736-11	1000	10V	elect
C5334	1-121-395-11	4.7	25V	elect
C5335	1-121-246-00	4.7	160V	elect
C5336	1-108-377-12	0.01	100V	mylar
C5337,5338	1-121-414-11	100	10V	elect
C5339–5341	1-121-422-11	220	25V	elect
C5342–5344	1-108-391-12	0.15	100V	mylar
C5345	1-121-757-00	33	160V	elect
C5346,5347	1-129-935-00	4500p	1.5kV	polyethylene
C5348	1-123-022-11	22	350V	elect
C5451	1-129-942-11	0.0027	1.5kV	polyethylene
C5501	1-121-733-11	470	25V	elect
C5502,5503	1-121-999-00	10	160V	elect
C5504	1-121-245-00	1000	16V	elect
C5505	1-121-733-11	470	25V	elect
C5507	1-121-398-11	10	25V	elect
C5508	1-102-973-00	100p		
C5509	1-123-116-11	1	160V	elect
C5510	1-108-244-12	0.033		mylar
C5511	1-121-391-11	1	50V	elect
C5512,5513	1-121-810-00	470	50V	elect
C5514	1-131-347-00	1	25V	tantalum
C5515	1-121-391-11	1	50V	elect
C5516	1-121-396-11	4.7	50V	elect
C5517	1-102-973-00	100p		
C5518	1-123-116-11	1	160V	elect
C5519	1-108-244-12	0.033		mylar
C5520	1-121-391-11	1	50V	elect
C5521,5522	1-121-810-00	470	50V	elect
C5523	1-131-347-00	1	25V	tantalum
C5524	1-121-391-11	1	50V	elect
C5525	1-121-396-11	4.7	50V	elect
C5526	1-102-973-00	100p		

Note:
The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref. No.	*Part No.*	*Description*		
C5527	1-123-116-11	1	160V	elect
C5528	1-108-244-12	0.033		mylar
C5529	1-121-391-11	1	50V	elect
C5530,5531	1-121-810-00	470	50V	elect
C5532	1-131-347-00	1	25V	tantalum
C5533	1-121-391-11	1	50V	elect
C5534	1-121-396-11	4.7	50V	elect
C5535	1-121-416-11	100	25V	elect
C5536,5537	1-108-234-12	0.0047		mylar
C5538	1-108-230-12	0.0022		mylar
C5539	1-102-973-00	100p		
C5540,5541	1-131-375-00	4.7	25V	tantalum
C5545	1-108-792-11	0.001		mylar
C5546	1-121-416-11	100	25V	elect
C5547	1-108-792-11	0.001		mylar
C5548	1-108-242-12	0.022		mylar
C5550–5552	1-108-425-12	0.022	200V	mylar
⚠C6101–6103	1-108-747-11	0.1	125V ac	mylar
C6104–6107	1-102-189-11	0.0047	125V	
C6108,6109	1-123-031-11	2200	35V	elect
C6110,6111	1-121-423-11	220	50V	elect
C6112	1-121-450-00	2.2	50V	elect
C6113,6114	1-125-099-11	560	200V	elect
C6201,6202	1-121-757-00	33	160V	elect
C6203	1-108-421-12	0.01	200V	mylar
C6204	1-108-546-21	1.5	400V	mylar
C6205	1-108-907-11	2.2	200V	mylar
C6206	1-108-646-11	0.47	100V	mylar
C6207	1-108-833-11	0.0047		mylar
C6208	1-121-404-11	33	25V	elect
C6209	1-108-845-11	0.047		mylar
C6210	1-121-404-11	33	25V	elect
C6211	1-121-450-00	2.2	50V	elect
C6212	1-121-426-51	470	16V	elect
C6213	1-121-421-51	220	16V	elect
C6214	1-121-450-00	2.2	50V	elect
C6215	1-121-391-11	1	50V	elect
C6216,6217	1-121-738-11	10	50V	elect
C9201	1-121-409-11	47	16V	elect
C9203,9205	1-121-404-11	33	25V	elect

Ref. No.	*Part No.*	*Description*		
C9206	1-108-393-12	0.22	100V	mylar
C9207	1-108-372-12	0.0039	100V	mylar
C9208	1-108-381-12	0.022	100V	mylar
C9209	1-121-416-11	100	25V	elect
CV201	1-141-138-XX	8p		trimmer

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 124 for their part numbers. All variable and adjustable resistors have characteristic curve B, unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ

R153	1-244-861-00	330	½W	carbon
R238	1-244-859-00	270	½W	carbon
R308	1-244-875-00	1.2k	½W	carbon
R316	1-244-869-00	680	½W	carbon
R320	1-202-726-11	3.9M	½W	composition
R332	1-206-701-11	100	3W	metal oxide (nonflammable)
R333	1-206-531-11	68	3W	metal oxide (nonflammable)
R368	1-211-935-11	1k	¼W	carbon (nonflammable)
R602	1-213-150-11	3.9k	1W	metal oxide (nonflammable)
R603	1-244-895-00	8.2k	½W	carbon
R604	1-213-125-11	33	1W	metal oxide (nonflammable)
R605	1-211-451-11	1k	1/8W	carbon (nonflammable)
R606	1-244-893-00	6.8k	½W	carbon
R609	1-206-757-11	22k	3W	metal oxide (nonflammable)
R610	1-211-427-11	100	1/8W	carbon (nonflammable)
R611–613	1-244-921-00	100k	½W	carbon
⧓ R614			¼W	carbon
⧓ R615			¼W	carbon
R616, 617	1-206-498-11	3	3W	metal oxide (nonflammable)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*		
R618	1-211-451-11	1k	1/8W	carbon (nonflammable)
R622	1-244-877-00	1.5k	½W	carbon
R623	1-211-427-11	100	1/8W	carbon (nonflammable)
R626, 627	1-205-526-11	220	40W	cement coated (nonflammable)
R701R,G,B	1-244-915-00	56k	½W	carbon
R702R,G,B	1-244-931-00	270k	½W	carbon
R703R,G,B	1-244-921-00	100k	½W	carbon
R704R,G,B	1-244-923-00	120k	½W	carbon
R706R,G,B	1-206-753-11	15k	3W	metal oxide (nonflammable)
R708R,G,B	1-244-873-00	1k	½W	carbon
R709R,G,B	1-244-929-00	220k	½W	carbon
R710R,G,B	1-244-873-00	1k	½W	carbon
R711R,G,B	1-244-939-00	560k	½W	carbon
R712R,G,B	1-244-883-00	2.7k	½W	carbon
R713R,G,B	1-244-915-00	56k	½W	carbon
R801, 802	1-206-487-11	1	3W	metal oxide (nonflammable)
R805–808 ⚠	1-212-816-11	150M	1.6W	metal oxide (nonflammable)
R809, 810	1-202-723-00	2.2M	½W	composition
R811	1-244-921-00	100k	½W	composition
R812, 813	1-217-001-11	0.33	3W	wirewound (nonflammable)
R901	1-206-495-11	2.2	3W	metal oxide (nonflammable)
R1451	1-244-859-00	270	½W	carbon
R1462	1-213-133-11	150	1W	metal oxide (nonflammable)
R1463	1-213-131-11	100	1W	metal oxide (nonflammable)
R1465	1-213-127-11	47	1W	metal oxide (nonflammable)
R1467,1468	1-212-356-11	0.47	1W	metal oxide (nonflammable)
R1470	1-206-485-11	82	2W	metal oxide (nonflammable)
R1471	1-206-447-11	2.2	2W	metal oxide (nonflammable)
R1472	1-206-640-61	100	2W	metal oxide (nonflammable)
R1473	1-206-481-11	56	2W	metal oxide (nonflammable)
R2109	1-244-889-00	4.7k	½W	carbon
R2229	1-244-945-00	1M	½W	carbon
R2230	1-244-872-00	910	½W	carbon
R2231,2236	1-206-696-11	22k	2W	metal oxide (nonflammable)
R2257,2258	1-202-730-11	8.2M	½W	composition
R4073	1-211-498-11	10	¼W	carbon (nonflammable)
R4076	1-214-134-11	1.2k	¼W	metal oxide
R4078	1-214-132-11	1k	¼W	metal oxide
R4104	1-214-166-11	27k	¼W	metal oxide
R4108	1-214-158-11	12k	¼W	metal oxide
R4118	1-214-132-11	1k	¼W	metal oxide
R4120	1-214-142-11	2.7k	¼W	metal oxide
R4123	1-214-154-11	8.2k	¼W	metal oxide
R4124	1-214-139-11	2k	¼W	metal oxide
R4135	1-206-640-11	100	2W	metal oxide (nonflammable)
R4136	1-206-644-11	150	2W	metal oxide (nonflammable)
R5108	1-206-707-11	180	3W	metal oxide (nonflammable)
R5111	1-213-150-11	3.9k	1W	metal oxide (nonflammable)
R5120	1-206-779-11	470	5W	metal oxide (nonflammable)
R5123	1-206-670-11	1.8k	2W	metal oxide (nonflammable)
R5124	1-217-005-11	0.68	3W	wirewound (nonflammable)
R5125	1-217-003-11	0.47	3W	wirewound (nonflammable)
R5310	1-211-475-11	10k	1/8W	carbon (nonflammable)
R5314	1-247-040-11	1k	1/8W	carbon (nonflammable)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*		
R5315	1-206-656-11	470	2W	metal oxide (nonflammable)
R5327	1-211-469-11	5.6k	1/8W	carbon (nonflammable)
R5328,5329	1-214-158-11	12k	¼W	metal oxide
R5336	1-244-867-00	560	½W	carbon
R5337,5340	1-206-465-11	12	2W	metal oxide (nonflammable)
R5341	1-214-084-11	10	¼W	metal oxide (nonflammable)
R5352	1-211-475-11	10k	1/8W	carbon (nonflammable)
R5356	1-247-040-11	1k	1/8W	carbon (nonflammable)
R5357	1-206-656-11	470	2W	metal oxide (nonflammable)
R5369	1-211-469-11	5.6k	1/8W	carbon (nonflammable)
R5370,5371	1-214-158-11	12k	¼W	metal oxide
R5378	1-244-867-00	560	½W	carbon
R5379	1-206-465-11	12	2W	metal oxide (nonflammable)
R5382	1-214-084-11	10	¼W	metal oxide
R5383	1-206-465-11	12	2W	metal oxide (nonflammable)
R5393	1-211-475-11	10k	1/8W	carbon (nonflammable)
R5397	1-247-040-11	1k	1/8W	carbon (nonflammable)
R5398	1-206-656-11	470	2W	metal oxide (nonflammable)
R5409	1-211-469-11	5.6k	1/8W	carbon (nonflammable)
R5410,5411	1-214-158-11	12k	¼W	metal oxide
R5418	1-244-867-00	560	½W	carbon
R5419,5422	1-206-465-11	12	2W	metal oxide (nonflammable)
R5423	1-214-084-11	10	¼W	metal oxide
R5426	1-206-463-11	10	2W	metal oxide (nonflammable)
R5427	1-206-703-11	120	3W	metal oxide (nonflammable)
R5429	1-206-531-11	68	3W	metal oxide (nonflammable)
R5430	1-206-914-11	82	3W	metal oxide (nonflammable)

Ref. No.	*Part No.*	*Description*		
R5431	1-206-531-11	68	3W	metal oxide (nonflammable)
R5432	1-212-362-11	1.5	1W	metal oxide (nonflammable)
R5433	1-211-630-11	470	½W	carbon (nonflammable)
R5434	1-206-703-11	120	3W	metal oxide (nonflammable)
R5451–5453	1-202-723-11	2.2M	½W	composition
R5454	1-244-921-00	100k	½W	carbon
R5501	1-214-138-11	1.8k	¼W	metal oxide
R5502	1-247-031-11	27	1/8W	carbon (nonflammable)
R5503	1-214-150-11	5.6k	¼W	metal oxide
R5504	1-247-031-11	27	1/8W	carbon (nonflammable)
R5505,5506	1-214-118-11	270	¼W	metal oxide
R5507	1-214-158-11	12k	¼W	metal oxide
R5508	1-214-171-11	43k	¼W	metal oxide
R5509,5510	1-244-923-00	120k	½W	carbon
R5512	1-246-994-11	680	1/8W	carbon (nonflammable)
R5515,5516	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5521	1-213-154-11	8.2k	1W	metal oxide (nonflammable)
R5525	1-214-093-11	24	¼W	metal oxide
R5526	1-214-094-11	27	¼W	metal oxide
R5527,5528	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5532,5533	1-214-123-11	430	¼W	metal oxide
R5535	1-214-138-11	1.8k	¼W	metal oxide
R5536	1-247-031-11	27	1/8W	carbon (nonflammable)
R5537	1-214-150-11	5.6k	¼W	metal oxide
R5538	1-247-031-11	27	1/8W	carbon (nonflammable)
R5539	1-214-158-11	12k	¼W	metal oxide
R5540	1-247-031-11	27	1/8W	carbon (nonflammable)
R5541	1-214-171-11	43k	¼W	metal oxide
R5542,5543	1-244-923-00	120k	½W	carbon
R5545	1-246-994-11	680	1/8W	carbon (nonflammable)

Note:
The components identified by ⧗ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref. No.	*Part No.*	*Description*		
R5548,5549	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5554	1-213-154-11	8.2k	1W	metal oxide (nonflammable)
R5558	1-214-093-11	24	¼W	metal oxide
R5559	1-214-094-11	27	¼W	metal oxide
R5560,5561	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5565,5566	1-214-123-11	430	¼W	metal oxide
R5568	1-214-138-11	1.8k	¼W	metal oxide
R5569	1-247-031-11	27	1/8W	carbon (nonflammable)
R5570	1-214-150-11	5.6k	¼W	metal oxide
R5571	1-247-031-11	27	1/8W	carbon (nonflammable)
R5572	1-214-158-11	12k	¼W	metal oxide
R5573	1-247-031-11	27	1/8W	carbon (nonflammable)
R5574	1-214-171-11	43k	¼W	metal oxide
R5575,5576	1-244-923-00	120k	½W	carbon
R5578	1-246-994-11	680	1/8W	carbon (nonflammable)
R5581,5582	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5587	1-213-154-11	8.2k	1W	metal oxide (nonflammable)
R5591	1-214-093-11	24	¼W	metal oxide
R5592	1-214-094-11	27	¼W	metal oxide
R5593,5594	1-206-759-11	27k	3W	metal oxide (nonflammable)
R5598,5599	1-214-123-11	430	¼W	metal oxide
R5601, 5602	1-106-743-11	5.6k	3W	metal oxide (nonflammable)
R5603, 5604	1-247-031-11	27	1/8W	carbon (nonflammable)
R5615	1-214-148-11	4.7k	¼W	metal oxide
R5616	1-214-154-11	8.2k	¼W	metal oxide
R5617,5618	1-214-156-11	10k	¼W	metal oxide
R5621,5622	1-244-923-00	120k	½W	carbon
R5623	1-244-857-00	220	½W	carbon
R5637	1-244-877-00	1.5k	½W	carbon
R5638	1-206-656-11	470	2W	metal oxide (nonflammable)

Ref. No.	*Part No.*	*Description*		
R5639	1-247-031-11	27	1/8W	carbon (nonflammable)
R5646	1-206-656-11	470	2W	metal oxide (nonflammable)
R5647	1-247-031-11	27	1/8W	carbon (nonflammable)
R6101	⚠1-202-647-11	1.2M	½W	composition
R6102	1-244-929-00	220k	½W	carbon
R6103	1-244-895-00	8.2k	½W	carbon
R6201	1-206-745-11	6.8k	3W	metal oxide (nonflammable)
R6203	1-211-651-11	3.6k	½W	carbon (nonflammable)
R6204	1-244-933-00	330k	½W	carbon
R6205	1-211-451-11	1k	1/8W	carbon (nonflammable)
R6206	1-214-180-11	100k	¼W	metal oxide
⧗R6207			¼W	carbon
⧗R6208			¼W	carbon
R6209	1-211-451-11	1k	1/8W	carbon (nonflammable)
R6210	1-214-179-11	91k	¼W	metal oxide
⧗R6211			¼W	carbon
⧗R6212			¼W	carbon
R6216	1-206-698-11	27k	2W	metal oxide (nonflammable)
R6220	1-213-163-11	47k	1W	metal oxide (nonflammable)
R6222	1-213-161-11	33k	1W	metal oxide (nonflammable)
R6232	1-211-427-11	100	1/8W	carbon (nonflammable)
R6235	1-206-725-11	1k	3W	metal oxide (nonflammable)
R6237	1-214-163-11	20k	¼W	metal oxide
R9501,9502	1-244-911-00	39k	½W	carbon
RV201	1-224-642-XX	1k, adjustable; V. AGC		
RV202	1-224-642-XX	1k, adjustable; U. AGC		

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*
RV301	1-224-642-XX	1k, adjustable; ACC
RV302	1-224-645-XX	10k, adjustable; HUE CENT
RV303	1-224-642-XX	1k, adjustable; G. BKG
RV304	1-224-711-00	1k, adjustable; B. DRIVE
RV305	1-224-711-00	1k, adjustable; R. DRIVE
RV401	1-224-644-XX	4.7k, adjustable; HUE PREF
RV601	1-224-641-XX	470, adjustable; 18V ADJ
RV801	⚠1-224-151-31	51M, adjustable; FOCUS
RV5101	1-224-646-XX	22k, adjustable; H. HOLD
RV5301	1-222-512-00	10k, adjustable; H. KEYS (G)
RV5302	1-222-807-XX	20k, adjustable; H. SIZE (G)
RV5303	1-222-807-XX	20k, adjustable; H. SKEW (G)
RV5304	1-224-645-XX	10k, adjustable; H. BOW (G)
RV5305	1-226-077-00	5k, variable; H. CENT (G)
RV5306	1-224-646-XX	22k, adjustable; H. SIZE (R)
RV5307	1-224-646-XX	22k, adjustable; H. SKEW (R)
RV5308	1-224-644-XX	4.7k, adjustable; H. CENT (R)
RV5309	1-222-512-00	10k, adjustable; H. KEYS (B)
RV5310	1-222-807-XX	20k, adjustable; H. SIZE (B)
RV5311	1-222-807-XX	20k, adjustable; H. SKEW (B)
RV5312	1-224-645-XX	10k, adjustable; H. BOW (B)
RV5313	1-226-077-00	5k, variable; H. CENT (B)
RV5314	1-223-067-00	120, adjustable; H. LIN (B)
RV5315	1-223-067-00	120, adjustable; H. LIN (G)
RV5451	1-226-114-00	2.2M, adjustable; SCRN-B
RV5452	1-226-114-00	2.2M, adjustable; SCRN-G
RV5453	1-226-114-00	2.2M, adjustable; SCRN-R
RV5501	1-224-641-XX	470, adjustable; Y. SIZE (R)
RV5502	1-224-644-XX	4.7k, adjustable; V. CENT (R)
RV5503	1-221-970-XX	500, adjustable; V. SIZE (G)
RV5504	1-221-970-XX	500, adjustable; V. LIN (G)
RV5505	1-224-711-00	1k, adjustable; V. SKEW (G)
RV5506	1-226-077-00	5k, variable; V. CENT (G)
RV5507	1-221-970-XX	500, adjustable; V. SIZE (B)
RV5508	1-221-970-XX	500, adjustable; V. LIN (B)
RV5509	1-224-711-00	1k, adjustable; V. SKEW (B)
RV5510	1-226-077-00	5k, variable; V. CENT (B)
RV9101	1-224-018-00	20k, variable; VIR COLOR

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	*Part No.*	*Description*
RV9102	1-224-018-00	20k, variable; VIR HUE
RV9201	1-224-018-00	20k, variable; PICTURE
RV9202	1-224-018-00	20k, variable; SHARPNESS
RV9203	1-224-018-00	20k, variable; BRIGHT
RV9204	1-224-018-00	20k, variable; COLOR
RV9205	1-224-018-00	20k, variable; HUE
RV9206	1-224-144-00	50k-D, variable; TONE

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*
DC851	⚠1-453-080-00	High-voltage Rectifier Block
F601	⚠1-532-262-XX	Fuse, 0.5A
F1401	⚠1-532-265-XX	Fuse, 1A
F5301	⚠1-532-267-XX	Fuse, 1.6A
F6101	⚠1-532-272-XX	Fuse, 5A
F6102	⚠1-532-265-XX	Fuse, 1A
F6103	⚠1-532-269-XX	Fuse, 2.5A
F6104	⚠1-532-402-XX	Fuse, 1.25A
F6201	⚠1-532-267-XX	Fuse, 1.6A
J901	1-507-412-XX	Jack, AUDIO IN
J902	1-509-851-31	Connector, BNC; VIDEO IN
M601	⚠1-541-141-00	Fan Motor, IB-625F
NL701R,G,B NL801	1-519-013-13	Lamp, neon
NL9501A,B –9512A,B	1-519-154-00	Lamp, neon
RY6101	⚠1-515-266-00	Relay
S601	1-532-548-00	Switch, sensor; blower stop (FSD-101F)
S901	1-516-866-00	Switch, pushbutton; POWER
S902	1-516-866-00	Switch, pushbutton; VOLUME ▼
S903	1-516-866-00	Switch, pushbutton; VOLUME ▲
S904	1-516-866-00	Switch, pushbutton; CHANNEL ►
S905	1-516-866-00	Switch, pushbutton; CHANNEL ◄
S906	1-516-285-00	Switch, pushbutton; HATCH
S6101	⚠1-516-463-XX	Switch, miniature; POWER ALL OFF SW

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	*Part No.*	*Description*
S9101	1-516-473-XX	Switch, slide; TV/VTR
S9102	1-516-473-XX	Switch, slide; VIR
S9201	1-516-473-XX	Switch, slide; AUTO
S9301A	1-552-212-00	Switch, pushbutton; TUNING ▸
S9301B	1-552-212-00	Switch, pushbutton; TUNING ◂
S9302A	1-552-213-00	Switch, pushbutton; AFT
S9302B	1-552-213-00	Switch, pushbutton; PRESET
S9302C	1-552-213-00	Switch, pushbutton; CLEAR
SP901	1-502-753-00	Speaker, 8Ω
V901B	⚠8-738-602-05	Picture Tube, SD-102 (B)
V901G	⚠8-738-601-05	Picture Tube, SD-102 (G)
V901R	⚠8-738-603-05	Picture Tube, SD-102 (R)
X301	1-527-154-00	Crystal
	1-526-607-00	Socket, picture tube
	⚠1-526-613-00	Cap, anode
	⚠1-534-692-00	Cord, power
	1-534-764-00	Feeder with Terminal
	⚠1-534-849-00	High-voltage Lead Ass'y
	⚠1-534-849-31	High-voltage Lead Ass'y
	1-536-378-XX	Terminal Strip
	⚠1-536-537-00	Terminal Board, antenna

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

PACKING MATERIALS AND ACCESSORIES

Part No.	*Description*	
A-1470-271-A	Remote Commander, RM-601W	
X-4332-208-0	Screen Ass'y, VPS-5000	
X-4332-210-0	Screen Ass'y, VPS-7200	
X-4332-215-0	Screw Ass'y (VPS-7200)	
X-4332-216-0	Screw Ass'y (VPS-5000)	
X-4332-236-0	Base Ass'y, projector	
X-4332-240-1	Card Ass'y, warranty (US model only)	
X-4500-007-1	Cloth	
3-701-630-00	Bag, polyethylene	
3-701-730-00	Bag, IBM card (US model only)	
3-794-233-21	Card, instruction; Customer Care Specialist (US model only)	
4-332-227-00	Segment, channel number	
4-332-292-00	Carton	(VPS-5000)
4-332-293-00	Bag, protection	
4-332-294-00	Cushion A	
4-332-295-00	Cushion B	
4-333-216-00	Sheet, protection (screen)	
4-333-266-00	Reinforcement (VPS-5000)	
4-333-267-00	Bag, protection (projection)	
4-333-268-00	Carton (KP-5000)	
4-333-271-00	Carton (KP-7200)	
4-333-273-00	Cushion, left; upper (projection)	
4-333-274-00	Cushion, right; upper (projection)	
4-333-275-00	Cushion, lower (projection)	
4-333-276-00	Carton	(VPS-7200)
4-333-278-00	Bag, protection	
4-333-279-00	Reinforcement	
4-333-280-00	Box, screen pole	
4-333-281-00	Sleeve, screen pole	(VPS-7200)
4-333-282-00	Holder A	
4-333-283-00	Holder B	
4-333-284-00	Holder C	
4-333-285-00	Cushion A	
4-333-286-00	Cushion B (VPS-7200)	
4-491-213-21	Safety Tips (US model only)	
4-491-310-21	Card, instruction; Care and Cleaning	
4-491-322-21	Information (VPS-7200)	
4-495-760-21	Manual, instruction	

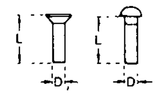
1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:

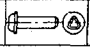
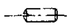
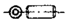
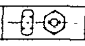
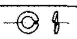
– P 3 x 10
L: *Length in mm*
D: *Diameter in mm*
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means cross-recessed head (Phillips type).



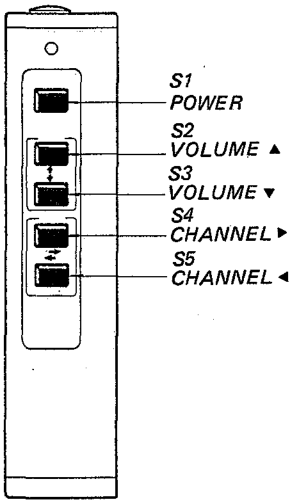
Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Nut, Washer, Retaining ring:

N 3
Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

RM-601W

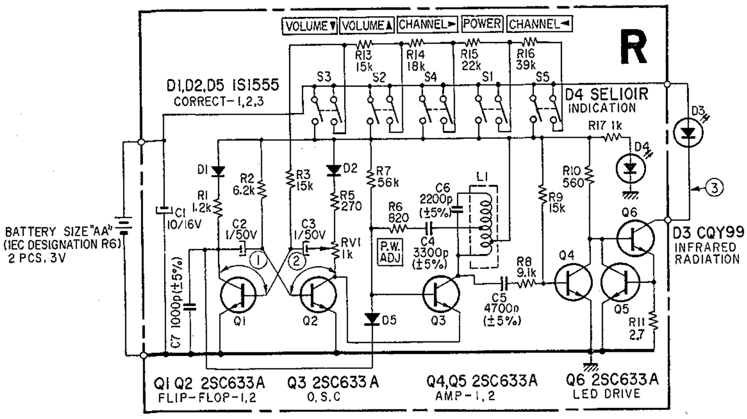

S1
POWER
S2
VOLUME ▲
S3
VOLUME ▼
S4
CHANNEL ▶
S5
CHANNEL ◀

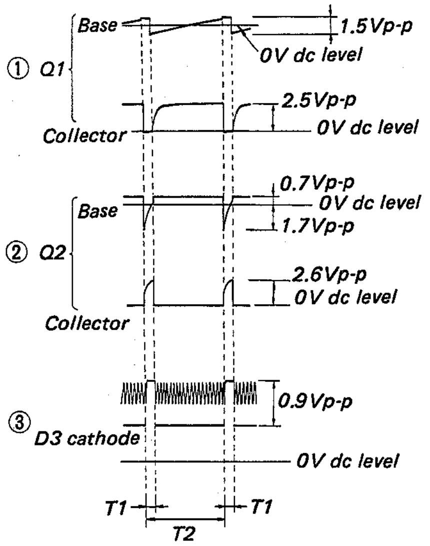
REMOTE COMMANDER

SPECIFICATIONS

Remote Control System:	Infrared wireless control
Semiconductors:	6 transistors and 5 diodes
Power Requirements:	3 V dc Battery size "AA" 2 pcs (IEC Battery Designation R6)
Dimensions:	44 (w) x 27.5 (h) x 192 (d) mm 1 ¾ (w) x 1 ⅛ (h) x 7 ⅝ (d) inches
Weight:	165 g (6 oz) including batteries
Accessory Supplied:	Battery size "AA" 2 pcs (IEC Battery Designation R6)

1. SCHEMATIC DIAGRAM


VOLUME▼
VOLUME▲
CHANNEL►
POWER
CHANNEL◄
R
R13 15k
R14 18k
R15 22k
R16 39k
S3
S2
S4
S1
S5
D1,D2,D5 IS1555
CORRECT-1,2,3
D4 SELIOIR
INDICATION
R17 1k
D1
D2
D3
D4
R1 1.2k
R2 6.2k
R3 15k
R5 270
R7 56k
R6 820
C6 2200p (±5%)
L1
R10 560
R9 15k
C1 10/16V
C2 1/50V
C3 1/50V
RV1 1k
P.W. ADJ
C4 3300p (±5%)
R8 9.1k
C5 4700p (±5%)
C7 1000p(±5%)
BATTERY SIZE"AA" (IEC DESIGNATION R6) 2 PCS, 3V
Q1
Q2
Q3
Q4
Q5
Q6
D5
R11 2.7
D3 CQY99
INFRARED RADIATION
①
②
③
Q1 Q2 2SC633A
FLIP-FLOP-1,2
Q3 2SC633A
O.S.C
Q4,Q5 2SC633A
AMP-1,2
Q6 2SC633A
LED DRIVE



		POWER (S1) ON	VOLUME▲ (S2) ON	VOLUME▼ (S3) ON	CHANNEL► (S4) ON	CHANNEL◄ (S5) ON
Q 1	B	0.38V	0.18V	0.23V	0.3V	0.26V
	C	2.3	1.8	1.8	2	2.3
Q 2	B	0.5	0.4	0.24	0.47	0.57
	C	0.3	0.58	0.9	0.38	0.21
Q 3	B	0.46	0.45	0.44	0.46	0.46
	E	0.3	0.58	0.9	0.38	0.21
	C	3.1	3.1	3.1	3.1	3.1
Q 4	B	0.41	0.44	0.48	0.43	0.4
	C	0.46	0.41	0.35	0.44	0.48
Q 5	B	0.18	0.16	0.13	0.17	0.19
	C	0.46	0.41	0.35	0.44	0.48
Q 6	B	0.46	0.41	0.35	0.44	0.48
	E	0.18	0.16	0.13	0.17	0.19
	C	2	2.03	2.07	2	1.98

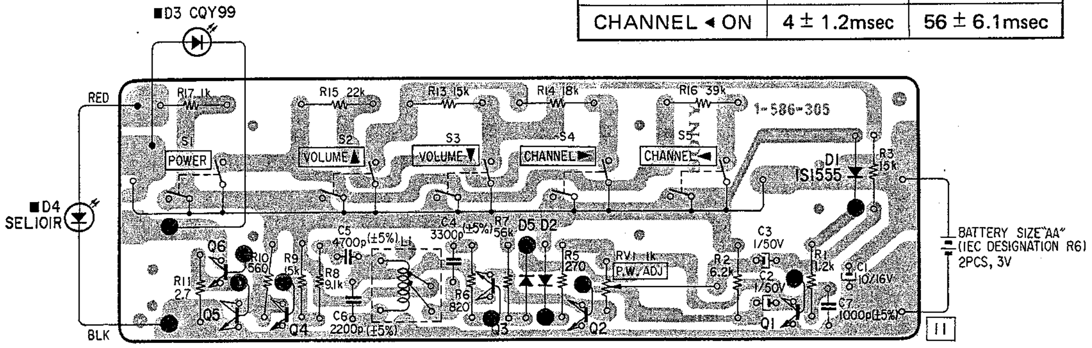
Note:

- All capacitors are in μF unless otherwise noted. p : μμF
- All resistors are in ohms, ¼W unless otherwise noted. k : 1000, M : 1000k
- Voltages are dc with respect to ground unless otherwise noted. Readings are with a color-bar signal applied.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- ○— : indicates parts or wire connection point through the component side.
- The pulse width of T1 and T2.

	T1	T2
POWER ON	4 ± 1.2msec	36 ± 2.1msec
VOLUME ▲ ON	4 ± 1.2msec	18 ± 1.8msec
VOLUME ▼ ON	4 ± 1.2msec	11 ± 1.4msec
CHANNEL ► ON	4 ± 1.2msec	25 ± 0.2msec
CHANNEL ◄ ON	4 ± 1.2msec	56 ± 6.1msec

2. MOUNTING DIAGRAM

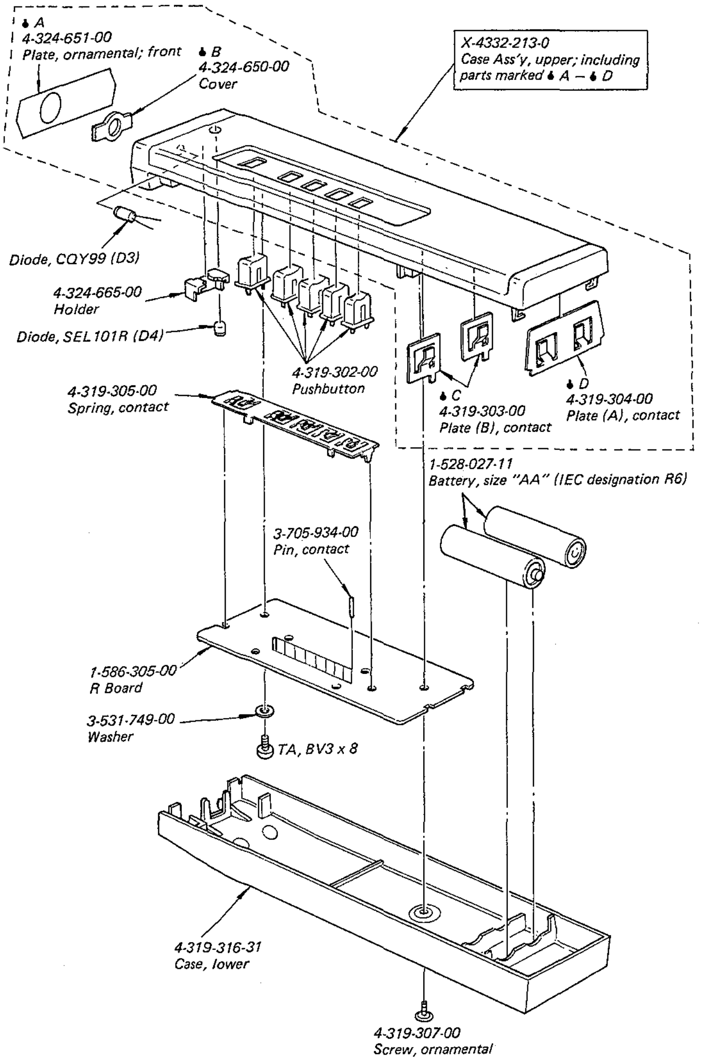
– Conductor Side –


■D3 CQY99
■D4 SELIOIR
RED
BLK
R17 1k
R15 22k
R13 15k
R14 18k
R16 39k
1-586-305
S1
S2
S3
S4
S5
POWER
VOLUME▲
VOLUME▼
CHANNEL►
CHANNEL◄
D1 IS1555
R3 15k
C5 4700p(±5%)
L1
C4 3300p(±5%)
R7 56k
D5 D2
R5 270
RV1 1k
P.W.ADJ
C3 1/50V
R2 6.2k
R1 1.2k
C1 10/16V
C2 1/50V
C7 1000p(±5%)
Q6
R10 560
R9 15k
R8 9.1k
R11 2.7
R6 820
Q5
Q4
C6 2200p(±5%)
Q3
Q2
Q1
BATTERY SIZE"AA" (IEC DESIGNATION R6) 2PCS, 3V
11

Q1~6 2SC633A   D2,5 IS1555

		POWER (S1) ON	VOLUME▲ (S2) ON	VOLUME▼ (S3) ON	CHANNEL ► (S4) ON	CHANNEL ◄ (S5) ON
Q 1	B	0.38V	0.18V	0.23V	0.3V	0.26V
	C	2.3	1.8	1.8	2	2.3
Q 2	B	0.5	0.4	0.24	0.47	0.57
	C	0.3	0.58	0.9	0.38	0.21
Q 3	B	0.46	0.45	0.44	0.46	0.46
	E	0.3	0.58	0.9	0.38	0.21
	C	3.1	3.1	3.1	3.1	3.1
Q 4	B	0.41	0.44	0.48	0.43	0.4
	C	0.46	0.41	0.35	0.44	0.48
Q 5	B	0.18	0.16	0.13	0.17	0.19
	C	0.46	0.41	0.35	0.44	0.48
Q 6	B	0.46	0.41	0.35	0.44	0.48
	E	0.18	0.16	0.13	0.17	0.19
	C	2	2.03	2.07	2	1.98

3. EXPLODED VIEW


♦A
4-324-651-00
Plate, ornamental; front
♦B
4-324-650-00
Cover
X-4332-213-0
Case Ass'y, upper; including parts marked ♦A – ♦D
Diode, CQY99 (D3)
4-324-665-00
Holder
Diode, SEL101R (D4)
4-319-302-00
Pushbutton
4-319-305-00
Spring, contact
♦C
4-319-303-00
Plate (B), contact
♦D
4-319-304-00
Plate (A), contact
1-528-027-11
Battery, size "AA" (IEC designation R6)
3-705-934-00
Pin, contact
1-586-305-00
R Board
3-531-749-00
Washer
TA, BV3 x 8
4-319-316-31
Case, lower
4-319-307-00
Screw, ornamental

4. ELECTRICAL PARTS LIST

CIRCUIT BOARD

Ref. No.	*Part No.*	*Description*
	1-586-305-00	R Board

SEMICONDUCTORS

Q1–6		Transistor, 2SC633A
D1, 2		Diode, 1S1555
D3		Diode, CQY99
D4		Diode, SEL101R
D5		Diode, 1S1555

COIL

L1	1-405-770-00	Oscillation

CAPACITORS

All capacitors are in μF.

C1	1-121-651-00	10	16V	elect
C2, 3	1-123-162-11	1	50V	elect
C4	1-161-179-11	3300p	25V	ceramic (semiconductor)
C5	1-161-181-11	4700p	25V	ceramic (semiconductor)
C6	1-103-733-11	2200p	50V	styrol
C7	1-161-173-11	1000p	25V	ceramic (semiconductor)

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.

RV1	1-224-642-XX	1k-B, adjustable; PW ADJ

ACCESSORIES

1-528-027-11	Battery, size "AA" (IEC designation R6)
2-100-514-00	Bag, polyethylene
3-701-616-00	Bag, polyethylene

SONY
COLOR VIDEO
PROJECTION
SYSTEM
KP-5000/7200

US and Canadian Model

Chassis No. SCC-194A-A KP-5000
SCC-195A-A KP-7200

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

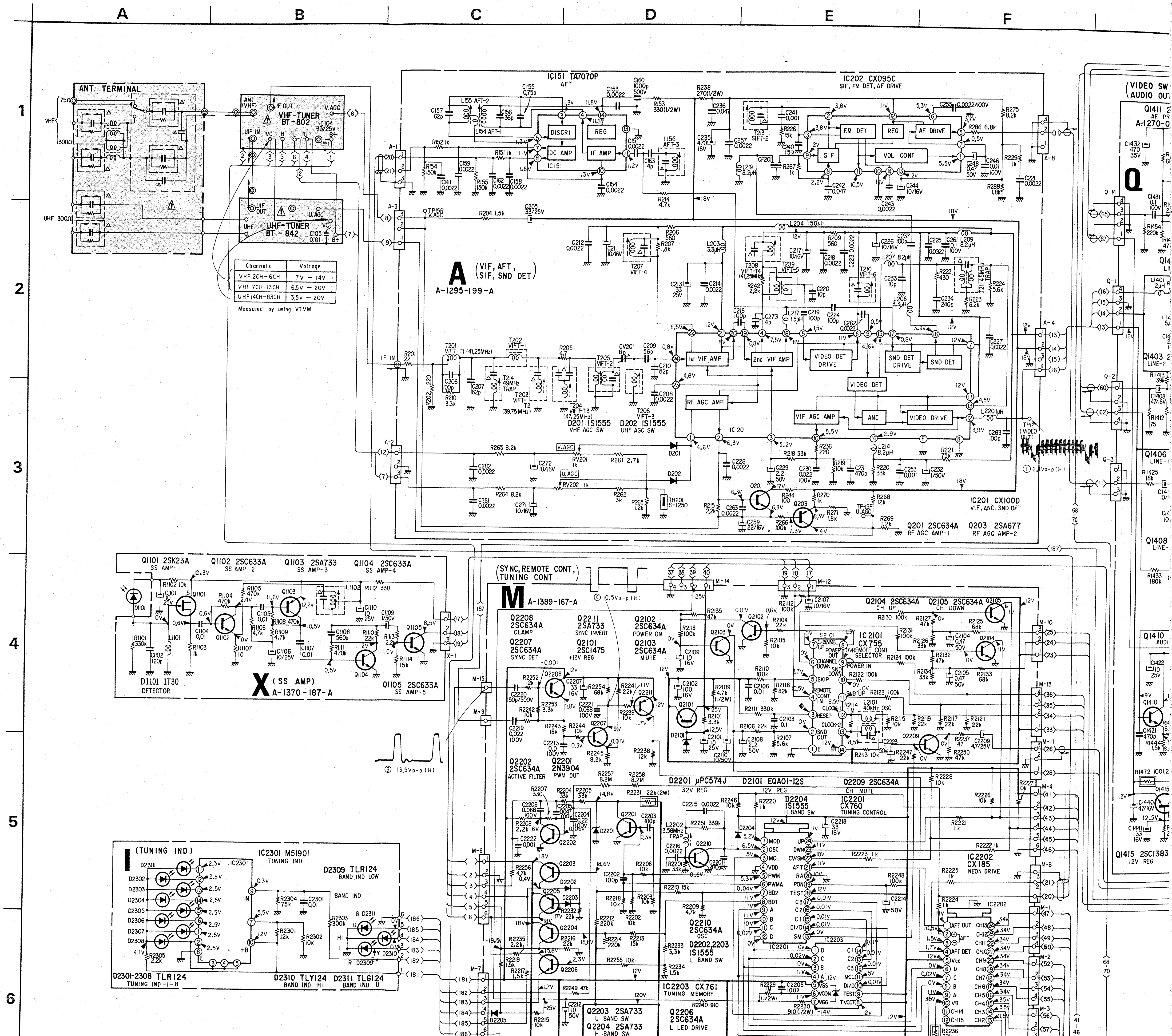
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

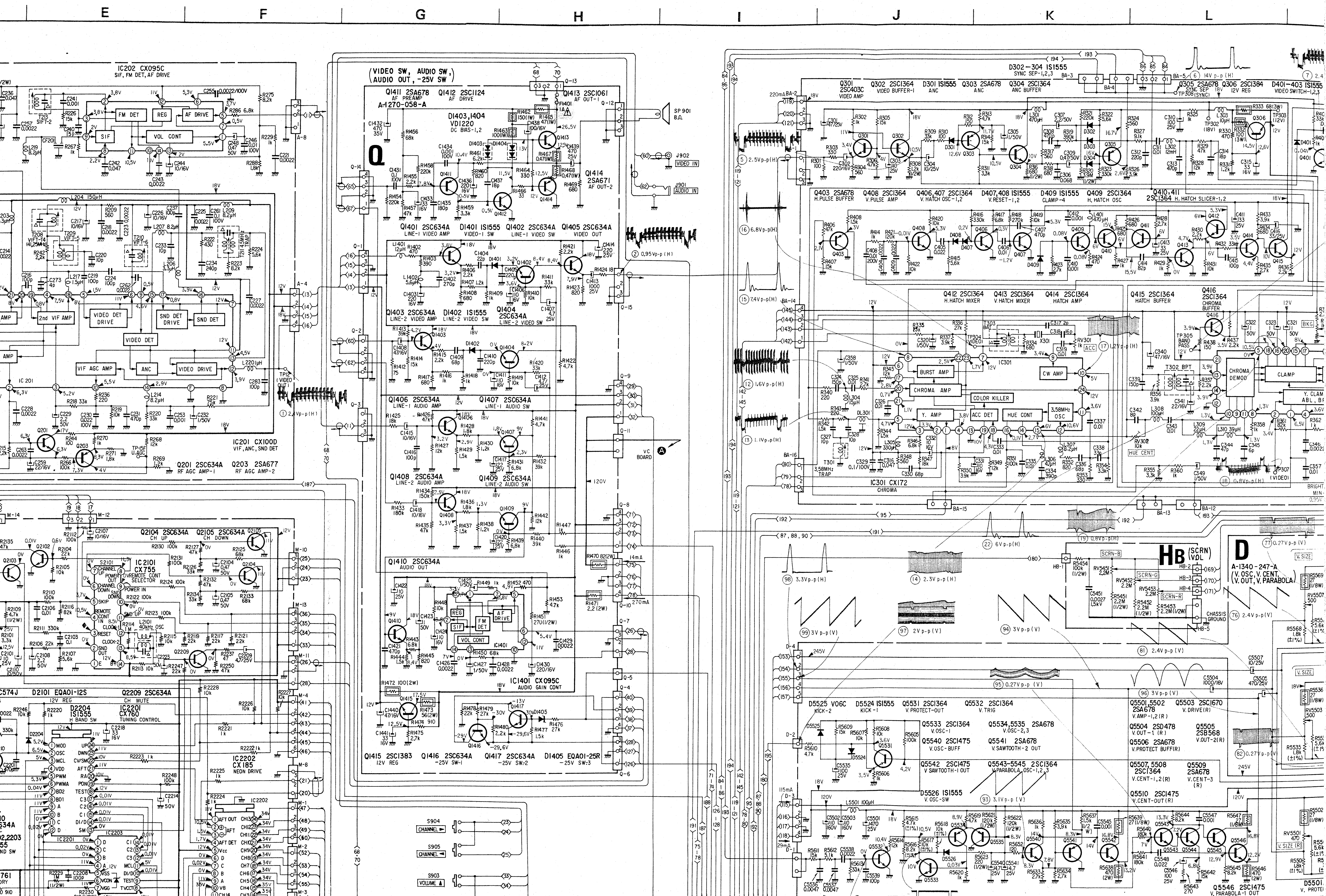
Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

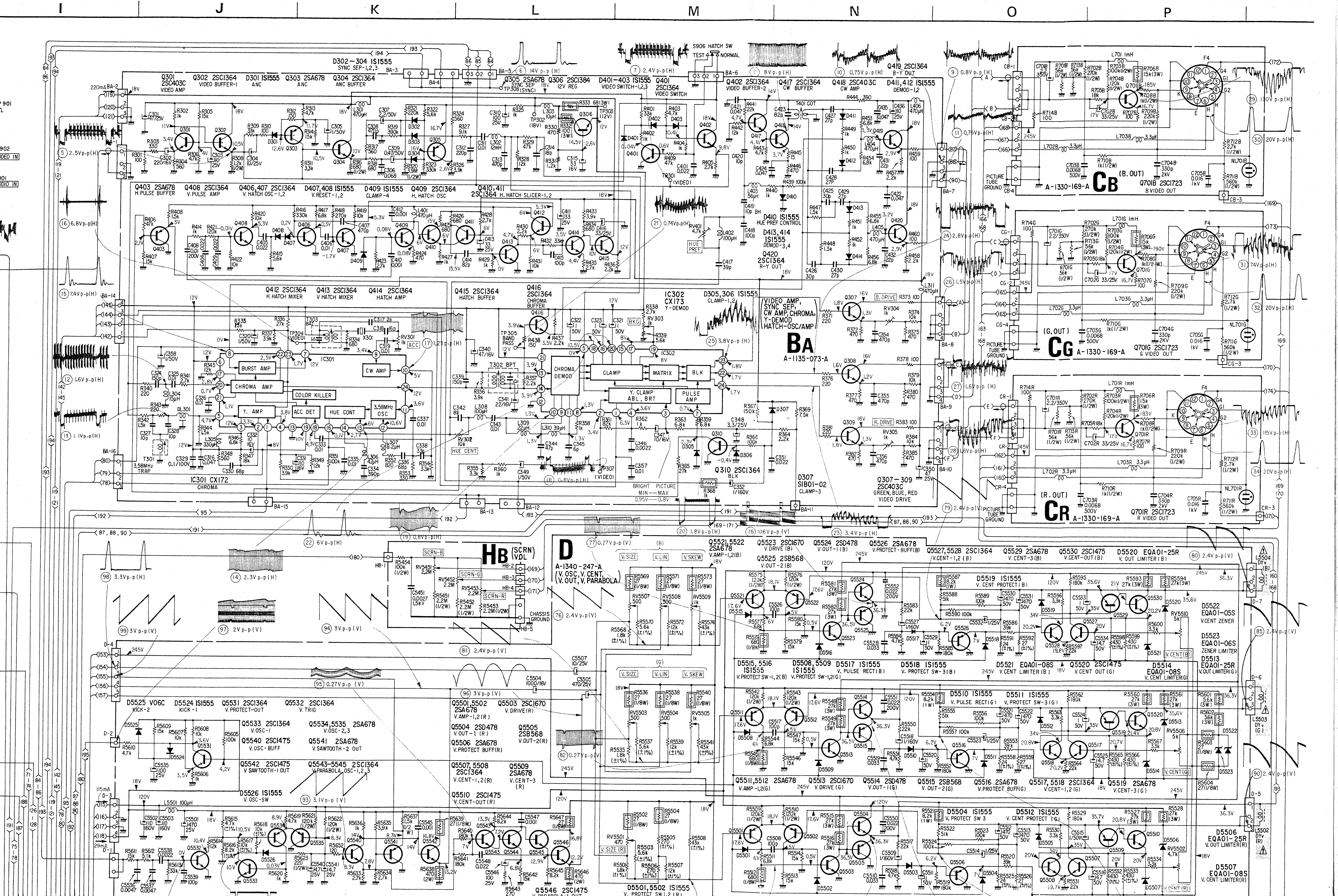
CAUTION

- Avoid rubbing the inked surface.
- Do not allow the paper to contact hot power resistor, soldering irons, etc.

SCHEMATIC DIAGRAM


A
B
C
D
E
F
1
2
3
4
5
6
ANT TERMINAL
VHF
75Ω
300Ω
UHF 300Ω
VHF-TUNER BT-802
UHF-TUNER BT-842
Channels
Voltage
VHF 2CH-6CH 7V – 14V
VHF 7CH-13CH 6,5V – 20V
UHF 14CH-83CH 3,5V – 20V
Measured by using VTVM
IC151 TA7070P AFT
DISCRI
REG
DC AMP
IF AMP
IC202 CX095C SIF, FM DET, AF DRIVE
FM DET
REG
AF DRIVE
SIF
VOL CONT
A (VIF, AFT, SIF, SND DET)
A-1295-199-A
IF IN
1st VIF AMP
2nd VIF AMP
VIDEO DET DRIVE
SND DET DRIVE
SND DET
VIDEO DET
RF AGC AMP
VIF AGC AMP
ANC
VIDEO DRIVE
IC201
D201 1S1555 VHF AGC SW
D202 1S1555 UHF AGC SW
IC201 CX100D VIF, ANC, SND DET
Q201 2SC634A RF AGC AMP-1
Q203 2SA677 RF AGC AMP-2
Q1101 2SK23A SS AMP-1
Q1102 2SC633A SS AMP-2
Q1103 2SA733 SS AMP-3
Q1104 2SC633A SS AMP-4
Q1105 2SC633A SS AMP-5
D1101 IT30 DETECTOR
X (SS AMP) A-1370-187-A
③ 13,5Vp-p (H)
(SYNC, REMOTE CONT, TUNING CONT)
M A-1389-167-A
④ 10,5Vp-p (H)
Q2208 2SC634A CLAMP
Q2211 2SA733 SYNC INVERT
Q2102 2SC634A POWER ON
Q2207 2SC634A SYNC DET
Q2101 2SC1475 +12V REG
Q2103 2SC634A MUTE
Q2104 2SC634A CH UP
Q2105 2SC634A CH DOWN
IC2101 CX755 REMOTE CONT SELECTOR
Q2202 2SC634A ACTIVE FILTER
Q2201 2N3904 PWM OUT
D2201 μPC574J 32V REG
D2101 EQA01-12S 12V REG
Q2209 2SC634A CH MUTE
D2204 1S1555 H BAND SW
IC2201 CX760 TUNING CONTROL
IC2202 CX185 NEON DRIVE
Q2210 2SC634A OSC
D2202, 2203 1S1555 L BAND SW
IC2203 CX761 TUNING MEMORY
Q2203 2SA733 U BAND SW
Q2204 2SA733 H BAND SW
Q2206 2SC634A L LED DRIVE
I (TUNING IND)
IC2301 M51901 TUNING IND
D2309 TLR124 BAND IND LOW
D2301-2308 TLR124 TUNING IND-1-8
D2310 TLY124 BAND IND HI
D2311 TLG124 BAND IND U
(VIDEO SW AUDIO OUT)
Q1411
Q
Q1403
Q1406
Q1408
Q1410
Q1415 2SC1383 12V REG
① 2,4Vp-p (H)


E
F
G
H
I
J
K
L
IC202 CX095C
SIF, FM DET, AF DRIVE
FM DET
REG
AF DRIVE
SIF
VOL CONT
IC201 CX100D
VIF, ANC, SND DET
2nd VIF AMP
VIDEO DET DRIVE
SND DET DRIVE
SND DET
VIDEO DET
VIF AGC AMP
ANC
VIDEO DRIVE
Q201 2SC634A
RF AGC AMP-1
Q203 2SA677
RF AGC AMP-2
(VIDEO SW, AUDIO SW, AUDIO OUT, -25V SW)
Q1411 2SA678
AF PREAMP
Q1412 2SC1124
AF DRIVE
Q1413 2SC1061
AF OUT-1
Q1414 2SA671
AF OUT-2
A-1270-058-A
Q
D1403,1404 VD1220
DC BIAS-1,2
SP901 8Ω
J902 VIDEO IN
J901 AUDIO IN
Q1401 2SC634A
LINE-1 VIDEO AMP
D1401 1S1555
LINE-1 VIDEO SW
Q1402 2SC634A
LINE-1 VIDEO SW
Q1405 2SC634A
VIDEO OUT
Q1403 2SC634A
LINE-2 VIDEO AMP
D1402 1S1555
LINE-2 VIDEO SW
Q1404 2SC634A
LINE-2 VIDEO SW
Q1406 2SC634A
LINE-1 AUDIO AMP
Q1407 2SC634A
LINE-1 AUDIO SW
Q1408 2SC634A
LINE-2 AUDIO AMP
Q1409 2SC634A
LINE-2 AUDIO SW
Q1410 2SC634A
AUDIO OUT
IC1401 CX095C
AUDIO GAIN CONT
REG
SIF
FM DET
AF DRIVE
VOL CONT
Q1415 2SC1383
12V REG
Q1416 2SC634A
-25V SW-1
Q1417 2SC634A
-25V SW-2
D1405 EQA01-25R
-25V SW:3
VC BOARD
Q2104 2SC634A
CH UP
Q2105 2SC634A
CH DOWN
IC2101 CX755
REMOTE CONT SELECTOR
Q2209
D2101 EQA01-12S
12V REG
D2204 1S1555
H BAND SW
IC2201 CX760
TUNING CONTROL
Q2209 2SC634A
CH MUTE
IC2202 CX185
NEON DRIVE
S904 CHANNEL ▼
S905 CHANNEL ▲
S903 VOLUME ▲
Q301 2SC403C
VIDEO AMP
Q302 2SC1364
VIDEO BUFFER-1
D301 1S1555
ANC
Q303 2SA678
ANC
Q304 2SC1364
ANC BUFFER
D302-304 1S1555
SYNC SEP-1,2,3
Q305 2SA678
SYNC SEP
Q306 2SC1384
12V REG
D401-403 1S1555
VIDEO SWITCH-1,2,3
Q403 2SA678
H.PULSE BUFFER
Q408 2SC1364
V.PULSE AMP
Q406,407 2SC1364
V.HATCH OSC-1,2
D407,408 1S1555
V.RESET-1,2
D409 1S1555
CLAMP-4
Q409 2SC1364
H.HATCH OSC
Q410,411 2SC1364
H.HATCH SLICER-1,2
Q412 2SC1364
H.HATCH MIXER
Q413 2SC1364
V.HATCH MIXER
Q414 2SC1364
HATCH AMP
Q415 2SC1364
HATCH BUFFER
Q416 2SC1364
CHROMA BUFFER
BURST AMP
CHROMA AMP
CW AMP
COLOR KILLER
Y. AMP
ACC DET
HUE CONT
3.58MHz OSC
CHROMA DEMOD
CLAMP
IC301 CX172
CHROMA
3.58MHz TRAP
HUE CENT
HB (SCRN) (VOL)
D
A-1340-247-A
(V. OSC, V. CENT, V. OUT, V. PARABOLA)
CHASSIS GROUND
V. SIZE
D5525 V06C
KICK-2
D5524 1S1555
KICK-1
Q5531 2SC1364
V. PROTECT-OUT
Q5532 2SC1364
V. TRIG
Q5533 2SC1364
V. OSC-1
Q5534,5535 2SA678
V. OSC-2,3
Q5540 2SC1475
V. OSC-BUFF
Q5541 2SA678
V. SAWTOOTH-2 OUT
Q5542 2SC1475
V SAWTOOTH-1 OUT
Q5543-5545 2SC1364
V. PARABOLA OSC-1,2,3
D5526 1S1555
V. OSC-SW
Q5501,5502 2SA678
V. AMP-1,2 (R)
Q5503 2SC1670
V. DRIVE (R)
Q5504 2SD478
V. OUT-1 (R)
Q5505 2SB568
V. OUT-2 (R)
Q5506 2SA678
V. PROTECT BUFF (R)
Q5507,5508 2SC1364
V. CENT-1,2 (R)
Q5509 2SA678
V. CENT-3 (R)
Q5510 2SC1475
V. CENT-OUT (R)
Q5546 2SC1475
V. PARABOLA-1 OUT
① 2.4Vp-p (H)
② 0.95Vp-p (H)
⑤ 2.5Vp-p (H)
⑫ 1.6Vp-p (H)
⑬ 1.1Vp-p (H)
⑭ 2.3V p-p (H)
⑮ 7.4Vp-p (H)
⑯ 6.8Vp-p (H)
⑰ 1.2Vp-p (H)
⑱ 0.8Vp-p (H)
⑲ 0.8Vp-p (H)
㉒ 6V p-p (H)
(76) 2.4V p-p (V)
(77) 0.27V p-p (V)
(81) 2.4V p-p (V)
(82) 0.27V p-p (V)
(93) 3.1Vp-p (V)
(94) 3V p-p (V)
(95) 0.27V p-p (V)
(96) 3V p-p (V)
(97) 2V p-p (V)
(98) 3.3Vp-p (H)
(99) 3V p-p (V)


I
J
K
L
M
N
O
P
D302-304 1S1555 SYNC SEP-1,2,3
Q301 2SC403C VIDEO AMP
Q302 2SC1364 VIDEO BUFFER-1
D301 1S1555 ANC
Q303 2SA678 ANC
Q304 2SC1364 ANC BUFFER
Q305 2SA678 SYNC SEP
Q306 2SC1384 12V REG
D401-403 1S1555 VIDEO SWITCH-1,2,3
Q401 2SC1364 VIDEO SWITCH
S906 HATCH SW
TEST
NORMAL
Q402 2SC1364 VIDEO BUFFER-2
Q417 2SC1364 CW BUFFER
Q418 2SC403C CW AMP
Q419 2SC1364 B-Y OUT
D411,412 1S1555 DEMOD-1,2
Q403 2SA678 H.PULSE BUFFER
Q408 2SC1364 V.PULSE AMP
Q406,407 2SC1364 V.HATCH OSC-1,2
D407,408 1S1555 V.RESET-1,2
D409 1S1555 CLAMP-4
Q409 2SC1364 H.HATCH OSC
Q410,411 2SC1364 H.HATCH SLICER-1,2
D410 1S1555 HUE PREF CONTROL
D413,414 1S1555 DEMOD-3,4
Q420 2SC1364 R-Y OUT
HUE PREF
Q412 2SC1364 H.HATCH MIXER
Q413 2SC1364 V.HATCH MIXER
Q414 2SC1364 HATCH AMP
Q415 2SC1364 HATCH BUFFER
Q416 2SC1364 CHROMA BUFFER
IC302 CX173 Y-DEMOD
D305,306 1S1555 CLAMP-1,2
VIDEO AMP, SYNC SEP, CW AMP, CHROMA, Y-DEMOD HATCH-OSC/AMP
BA
A-1135-073-A
BURST AMP
CHROMA AMP
COLOR KILLER
Y. AMP
ACC DET
HUE CONT
3.58MHz OSC
CW AMP
IC301
CHROMA DEMOD
CLAMP
MATRIX
BLK
Y. CLAMP ABL, BRT
PULSE AMP
IC301 CX172 CHROMA
T301 3.58MHz TRAP
T302 BPT
HUE CENT
BRIGHT PICTURE MIN—MAX
Q310 2SC1364 BLK
D307 S1B01-02 CLAMP-3
Q307-309 2SC403C GREEN, BLUE, RED VIDEO DRIVE
B. DRIVE
R. DRIVE
PICTURE TUBE GROUND
CB-1
CB-4
A-1330-169-A
CB (B. OUT)
Q701B 2SC1723 B VIDEO OUT
CG (G. OUT)
A-1330-169-A
Q701G 2SC1723 G VIDEO OUT
CR (R. OUT)
A-1330-169-A
Q701R 2SC1723 R VIDEO OUT
L701 1mH
F4
HB (SCRN) VDL
SCRN-B
SCRN-G
SCRN-R
CHASSIS GROUND
D
A-1340-247-A (V. OSC, V. CENT, V. OUT, V. PARABOLA)
V. SIZE
V. LIN
V. SKEW
Q5521,5522 2SA678 V.AMP-1,2(B)
Q5523 2SC1670 V.DRIVE(B)
Q5524 2SD478 V.OUT-1(B)
Q5526 2SA678 V.PROTECT-BUFF(B)
Q5525 2SB568 V.OUT-2(B)
Q5527,5528 2SC1364 V.CENT-1,2(B)
Q5529 2SA678 V.CENT-3(B)
Q5530 2SC1475 V.CENT-OUT(B)
D5520 EQA01-25R V. OUT LIMITER(B)
D5519 1S1555 V. CENT PROTECT(B)
D5522 EQA01-05S V.CENT ZENER
D5523 EQA01-06S ZENER LIMITER
D5513 EQA01-25R V.OUT LIMITER(G)
D5515,5516 1S1555 V.PROTECT SW-1,2(B)
D5508,5509 1S1555 V.PROTECT SW-1,2(G)
D5517 1S1555 V. PULSE RECT(B)
D5518 1S1555 V. PROTECT SW-3(B)
D5521 EQA01-08S V.CENT LIMITER(B)
Q5520 2SC1475 V.CENT OUT(G)
D5514 EQA01-08S V.CENT LIMITER(G)
D5510 1S1555 V. PULSE RECT(G)
D5511 1S1555 V. PROTECT SW-3(G)
Q5511,5512 2SA678 V.AMP-1,2(G)
Q5513 2SC1670 V.DRIVE(G)
Q5514 2SD478 V.OUT-1(G)
Q5515 2SB568 V.OUT-2(G)
Q5516 2SA678 V.PROTECT BUFF(G)
Q5517,5518 2SC1364 V.CENT-1,2(G)
Q5519 2SA678 V.CENT-3(G)
D5504 1S1555 V. PROTECT SW 3
D5512 1S1555 V. CENT PROTECT (G)
D5506 EQA01-25R V.OUT LIMITER(R)
D5507 EQA01-08S V.CENT LIMITER(R)
D5525 V06C KICK-2
D5524 1S1555 KICK-1
Q5531 2SC1364 V.PROTECT-OUT
Q5532 2SC1364 V.TRIG
Q5533 2SC1364 V.OSC-1
Q5534,5535 2SA678 V.OSC-2,3
Q5540 2SC1475 V.OSC-BUFF
Q5541 2SA678 V.SAWTOOTH-2 OUT
Q5542 2SC1475 V SAWTOOTH-1 OUT
Q5543-5545 2SC1364 V.PARABOLA_OSC-1,2,3
D5526 1S1555 V. OSC-SW
Q5501,5502 2SA678 V.AMP-1,2(R)
Q5503 2SC1670 V.DRIVE(R)
Q5504 2SD478 V.OUT-1(R)
Q5505 2SB568 V.OUT-2(R)
Q5506 2SA678 V.PROTECT BUFF(R)
Q5507,5508 2SC1364 V.CENT-1,2(R)
Q5509 2SA678 V.CENT-3 (R)
Q5510 2SC1475 V.CENT-OUT(R)
D5501,5502 1S1555 V. PROTECT SW1,2 (R)
Q5546 2SC1475
L5501 100μH
L5504 DY (B)
L5503 DY (G)
L5502 DY (R)
(98) 3.3Vp-p(H)
(14) 2.3Vp-p(H)
(99) 3V p-p(V)
(97) 2V p-p(V)
(94) 3V p-p(V)
(95) 0.27V p-p (V)
(96) 3V p-p(V)
(93) 3.1V p-p (V)
(81) 2.4V p-p (V)
(76) 2.4V p-p(V)
(82) 0.27V p-p(V)
(77) 0.27V p-p(V)
(80) 2.4V p-p(V)
(85) 2.4V p-p(V)
(90) 2.4V p-p(V)
(6) 14V p-p(H)
(7) 2.4V p-p(H)
(8) 8V p-p(H)
(10) 0.75V p-p(H)
(9) 0.8V p-p(H)
(11) 0.76V p-p(H)
(5) 2.5Vp-p(H)
(16) 6.8Vp-p(H)
(15) 7.4Vp-p(H)
(12) 1.6V p-p(H)
(13) 1.1Vp-p(H)
(17) 1.2Vp-p(H)
(18) 0.8Vp-p(H)
(19) 0.8Vp-p(H)
(20) 1.8Vp-p(H)
(21) 0.74Vp-p(H)
(22) 6V p-p(H)
(23) 3.4V p-p(H)
(24) 2.8Vp-p(H)
(25) 3.8Vp-p(H)
(26) 1.5Vp-p(H)
(27) 1.6V p-p (H)
(28) 1.6Vp-p(H)
(29) 130V p-p(H)
(30) 20V p-p(H)
(31) 74Vp-p(H)
(32) 20Vp-p(H)
(33) 115Vp-p(H)
(34) 20Vp-p(H)
(76) 106V p-p (V)
(79) 2.4V p-p(V)
BA-1
BA-2
BA-3
BA-4
BA-5
BA-6
BA-7
BA-8
BA-9
BA-10
BA-11
BA-12
BA-13
BA-14
BA-15
BA-16
HB-1
HB-2
HB-3
HB-4
HB-5
D-1
D-2
D-3
D-4
D-5
D-6
D-7
CB-3
CG-1
CG-2
CG-3
CG-4
CR-1
CR-2
CR-3
CR-4
220mA
115mA
29mA

ote:

All capacitors are in μF unless otherwise noted. pF : μμF 50 WV or less are not indicated except for electrolytics.

All resistors are in ohms, ¼W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ

- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.

The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

When replacing components identified by ◪ make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved.

(Refer to R6211/R6212 Adjustment, (On Page 28) R6207/R6208 (On Page 28) Adjustment and R614/R615 Adjustment.) (On Page 26)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (◪)	Adjustment
T801, T802, R807, R808, R810 R6207, R6208, R6211, R6212 C802, C803, C804, C805, DC851 Q6204, Q6205, D6207, R6210	R6211/R6212 ADJUSTMENT R6207/R6208 ADJUSTMENT
R805, R806, R809 Q6201, Q6202, Q6203, Q6214 D6201, R6206, R6237	R6207/R6208 ADJUSTMENT
D602, R611, R612, R613 R614, R615	R614/R615 ADJUSTMENT

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Reference numbers of the I board differ from those indicated on the printed circuit board of the set.

Read the reference numbers of the I board by adding 2300 to those indicated.

Reference numbers of the M board differ from those indicated on the printed circuit board of the set.

Read the reference numbers of the M board by adding 2000 to those indicated.

Reference numbers of the Q board differ from those indicated on the printed circuit board of the set.

Read the reference numbers of the Q board by adding 1000 to those indicated.

Voltages are dc with respect to ground unless otherwise noted.

Readings are taken with a 20,000-ohm-per-volt VOM.

- ⊘ : adjustable without removing cabinet.
- ▭ : adjustment for repair.

Readings are taken with a color-bar signal input.

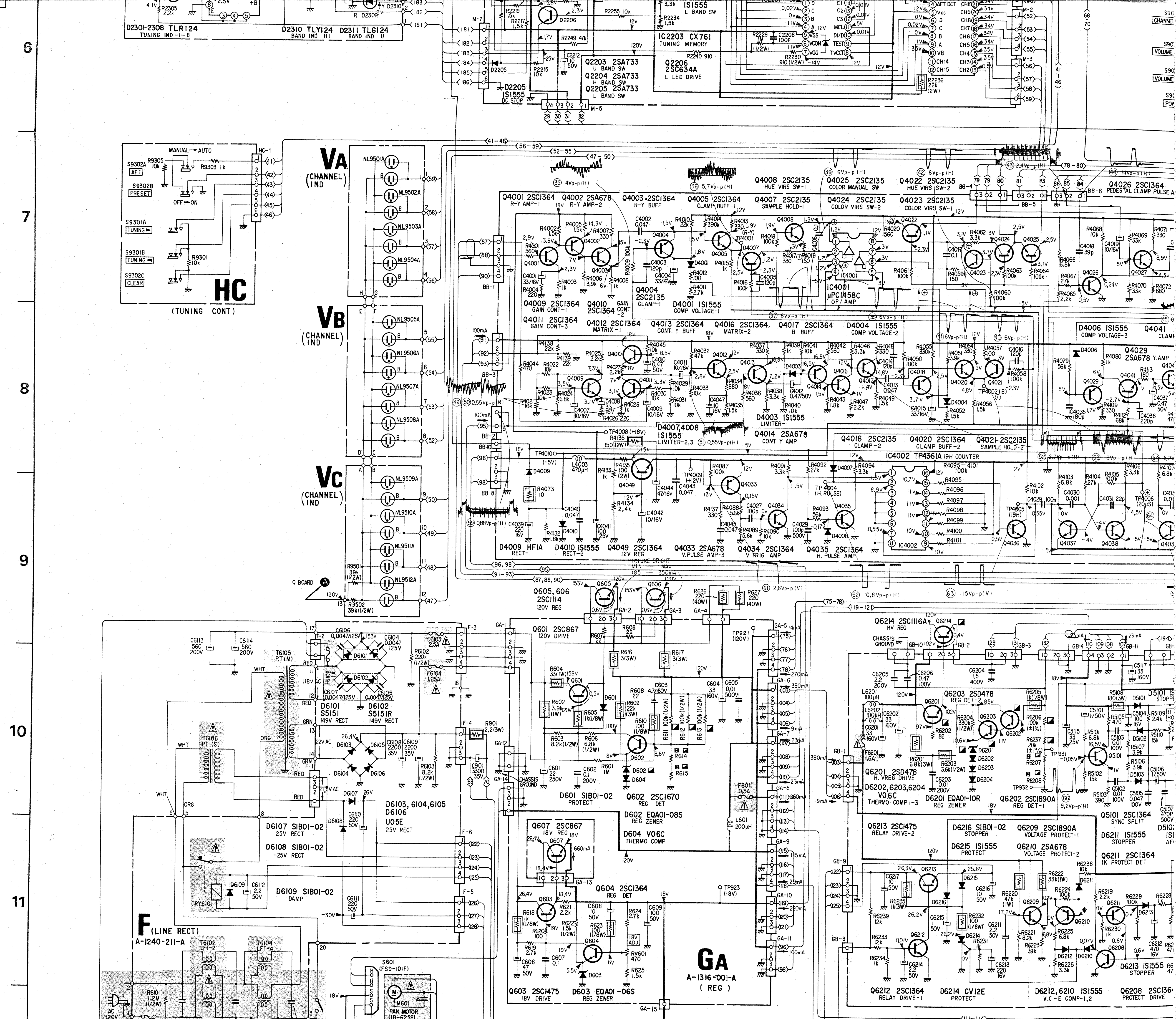
Voltage variations may be noted due to normal production tolerances.

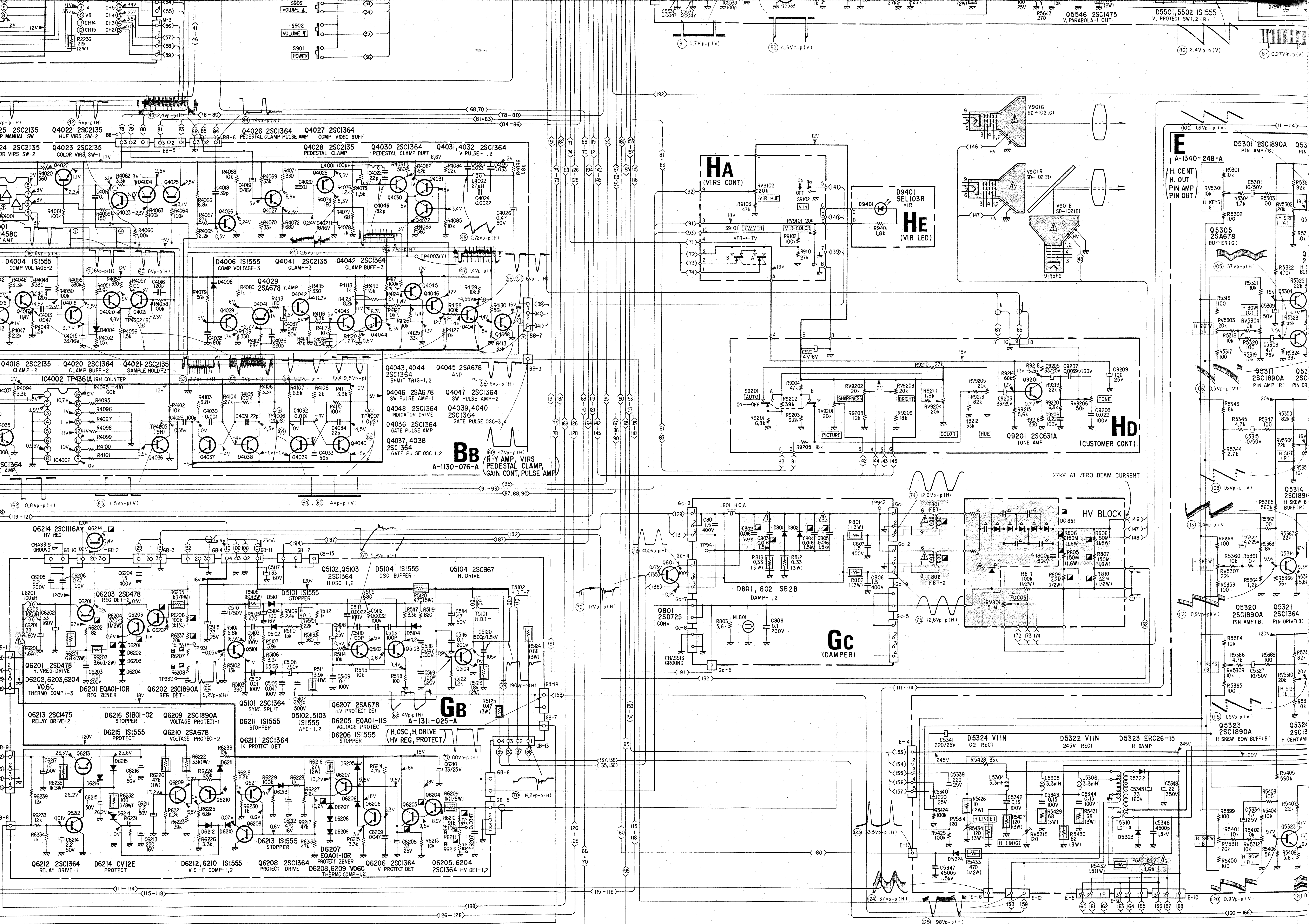
- ▭ : fusible resistor.
- ◆ : When this portion is touched with the probe of a VOM, the set will be turned off.

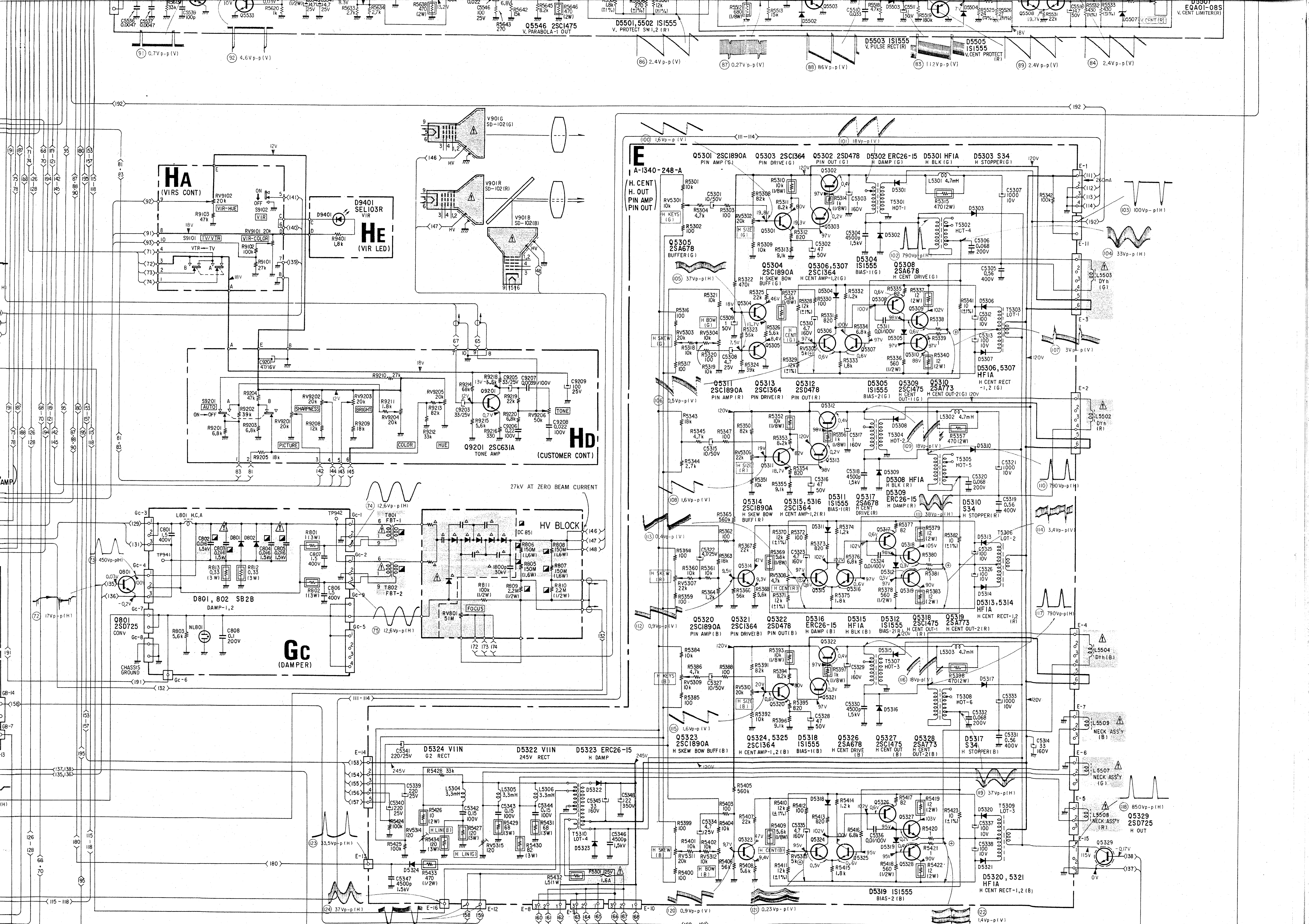
Voltages in M board are taken with the channel selector button set to CH-2 (LOW BAND).

Voltages in Q board are taken with the TV/VTR switch set to TV.

Voltages in I board are taken with channel selector button set to CH-2 (LOW BAND).


6
7
8
9
10
11
D2301-2308 TLR124 TUNING IND-I-8
D2310 TLY124 BAND IND HI
D2311 TLG124 BAND IND U
IC2203 CX761 TUNING MEMORY
Q2206 2SC634A L LED DRIVE
Q2203 2SA733 U BAND SW
Q2204 2SA733 H BAND SW
Q2205 2SA733 L BAND SW
D2205 IS1555 DC STOP
HC (TUNING CONT)
S9302A AFT
S9302B PRESET
S9301A TUNING
S9301B TUNING
S9302C CLEAR
MANUAL→AUTO
OFF→ON
VA (CHANNEL IND)
VB (CHANNEL IND)
VC (CHANNEL IND)
Q BOARD
Q4001 2SC1364 R-Y AMP-1
Q4002 2SA678 R-Y AMP-2
Q4003 2SC1364 R-Y BUFF
Q4005 2SC1364 CLAMP BUFF-1
Q4007 2SC2135 SAMPLE HOLD-1
Q4008 2SC2135 HUE VIRS SW-1
Q4025 2SC2135 COLOR MANUAL SW
Q4024 2SC2135 COLOR VIRS SW-2
Q4022 2SC2135 HUE VIRS SW-2
Q4023 2SC2135 COLOR VIRS SW-1
Q4026 2SC1364 PEDESTAL CLAMP PULSE AMP
IC4001 μPC1458C OP AMP
Q4009 2SC1364 GAIN CONT-1
Q4010 2SC1364 GAIN CONT-2
Q4004 2SC2135 CLAMP-1
D4001 IS1555 COMP VOLTAGE-1
Q4011 2SC1364 GAIN CONT-3
Q4012 2SC1364 MATRIX-1
Q4013 2SC1364 CONT. Y BUFF
Q4016 2SC1364 MATRIX-2
Q4017 2SC1364 B BUFF
D4004 IS1555 COMP VOLTAGE-2
D4006 IS1555 COMP VOLTAGE-3
Q4029 2SA678 Y AMP
D4003 IS1555 LIMITER-1
D4007,4008 IS1555 LIMITER-2,3
Q4014 2SA678 CONT Y AMP
Q4018 2SC2135 CLAMP-2
Q4020 2SC1364 CLAMP BUFF-2
Q4021 2SC2135 SAMPLE HOLD-2
IC4002 TP4361A 19H COUNTER
D4009 HF1A RECT-1
D4010 IS1555 RECT-2
Q4049 2SC1364 12V REG
Q4033 2SA678 V.PULSE AMP-3
Q4034 2SC1364 V TRIG AMP
Q4035 2SC1364 H. PULSE AMP
PICTURE BRIGHT MIN — MAX 185 — 350mA
Q605, 606 2SC1114 120V REG
Q601 2SC867 120V DRIVE
Q602 2SC1670 REG DET
D601 SIB01-02 PROTECT
D602 EQA01-08S REG ZENER
D604 V06C THERMO COMP
Q607 2SC867 18V REG
Q604 2SC1364 REG DET
Q603 2SC1475 18V DRIVE
D603 EQA01-06S REG ZENER
GA A-1316-001-A (REG)
F (LINE RECT) A-1240-211-A
T6105 P.T (M)
T6106 P.T (S)
D6101 S5151 149V RECT
D6102 S5151R 149V RECT
D6103, 6104, 6105 D6106 U05E 25V RECT
D6107 SIB01-02 25V RECT
D6108 SIB01-02 -25V RECT
D6109 SIB01-02 DAMP
RY6101
T6102 LFT-2
T6104 LFT-4
S601 (FSD-101F)
M601 FAN MOTOR (UB-625E)
AC 120V
Q6214 2SC1116A HV REG
Q6203 2SD478 REG DET-2
Q6201 2SD478 H. VREG DRIVE
D6202,6203,6204 V06C THERMO COMP 1-3
D6201 EQA01-10R REG ZENER
Q6202 2SC1890A REG DET-1
Q6213 2SC1475 RELAY DRIVE-2
D6216 SIB01-02 STOPPER
D6215 IS1555 PROTECT
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
Q6212 2SC1364 RELAY DRIVE-1
D6214 CV12E PROTECT
D6212,6210 IS1555 V.C-E COMP-1,2
D6213 IS1555 STOPPER
Q6208 2SC1364 PROTECT DRIVE
Q6211 2SC1364 IK PROTECT DET
Q5101 2SC1364 SYNC SPLIT
D6211 IS1555 STOPPER
D5101 STOPPER


BB
A-1130-076-A
R-Y AMP, VIRS PEDESTAL CLAMP, GAIN CONT, PULSE AMP
Q4022 2SC2135 HUE VIRS SW-2
Q4023 2SC2135 COLOR VIRS SW-1
Q4026 2SC1364 PEDESTAL CLAMP PULSE AMP
Q4027 2SC1364 COMP VIDEO BUFF
Q4028 2SC2135 PEDESTAL CLAMP
Q4030 2SC1364 PEDESTAL CLAMP BUFF
Q4031,4032 2SC1364 V PULSE-1,2
D4004 1S1555 COMP VOLTAGE-2
D4006 1S1555 COMP VOLTAGE-3
Q4041 2SC2135 CLAMP-3
Q4042 2SC1364 CLAMP BUFF-3
Q4029 2SA678 Y AMP
Q4018 2SC2135 CLAMP-2
Q4020 2SC1364 CLAMP BUFF-2
Q4021 2SC2135 SAMPLE HOLD-2
IC4002 TP4361A 19H COUNTER
Q4043,4044 2SC1364 SHMIT TRIG-1,2
Q4045 2SA678 AND
Q4046 2SA678 SW PULSE AMP-1
Q4047 2SC1364 SW PULSE AMP-2
Q4048 2SC1364 INDICATOR DRIVE
Q4039,4040 2SC1364 GATE PULSE OSC-3,4
Q4036 2SC1364 GATE PULSE AMP
Q4037,4038 2SC1364 GATE PULSE OSC-1,2
S903 VOLUME ▲
S902 VOLUME ▼
S901 POWER
HA
(VIRS CONT)
RV9102 20k VIR-HUE
S9102 VIR
RV9101 20k VIR-COLOR
S9101 TV/VTR
HE
(VIR LED)
D9401 SEL103R VIR
HD
(CUSTOMER CONT)
S9201 AUTO
SHARPNESS
PICTURE
BRIGHT
COLOR
HUE
TONE
Q9201 2SC631A TONE AMP
V901G SD-102(G)
V901R SD-102(R)
V901B SD-102(B)
E
A-1340-248-A
H. CENT
H. OUT
PIN AMP
PIN OUT
Q5301 2SC1890A PIN AMP (G)
Q5305 2SA678 BUFFER (G)
Q5311 2SC1890A PIN AMP (R)
Q5314 2SC1890A H SKEW BUFF (R)
Q5320 2SC1890A PIN AMP (B)
Q5321 2SC1364 PIN DRIVE
Q5323 2SC1890A H SKEW BOW BUFF (B)
D5324 V11N G2 RECT
D5322 V11N 245V RECT
D5323 ERC26-15 H DAMP
T5310 LOT-4
Q5546 2SC1475 V. PARABOLA-1 OUT
D5501,5502 1S1555 V. PROTECT SW1,2 (R)
H KEYS
H BOW
H SKEW
H SIZE
H LIN
FOCUS
HV BLOCK
27kV AT ZERO BEAM CURRENT
T801 FBT-1
T802 FBT-2
RV801 51M
D801, 802 SB2B DAMP-1,2
Q801 2SD725 CONV
NL801
GC
(DAMPER)
CHASSIS GROUND
GB
A-1311-025-A
(H. OSC, H. DRIVE HV REG, PROTECT)
Q6214 2SC1116A HV REG
Q6201 2SD478 H. VREG DRIVE
Q6203 2SD478 REG DET-2
D6202,6203,6204 V06C THERMO COMP 1-3
D6201 EQA01-10R REG ZENER
Q6202 2SC1890A REG DET-1
Q5101 2SC1364 SYNC SPLIT
D5101 1S1555 STOPPER
Q5102,Q5103 2SC1364 H OSC-1,2
D5104 1S1555 OSC BUFFER
Q5104 2SC867 H. DRIVE
T5101 H.D.T-1
T5102 H.D.T-2
D6211 1S1555 STOPPER
D5102,5103 1S1555 AFC-1,2
Q6207 2SA678 H.V PROTECT DET
D6205 EQA01-11S VOLTAGE PROTECT
D6206 1S1555 STOPPER
Q6213 2SC1475 RELAY DRIVE-2
D6216 S1B01-02 STOPPER
D6215 1S1555 PROTECT
Q6209 2SC1890A VOLTAGE PROTECT-1
Q6210 2SA678 VOLTAGE PROTECT-2
D6211 2SC1364 IK PROTECT DET
Q6212 2SC1364 RELAY DRIVE-1
D6214 CV12E PROTECT
D6212,6210 1S1555 V.C-E COMP-1,2
D6213 1S1555 STOPPER
Q6208 2SC1364 PROTECT DRIVE
D6207 EQA01-10R PROTECT ZENER
D6208,6209 V06C THERMO COMP-1,2
Q6206 2SC1364 V. PROTECT DET
Q6205,6204 2SC1364 HV DET-1,2
(62) 10.8Vp-p(H)
(63) 115Vp-p(V)
(64),(65) 14Vp-p(V)
(72) 17Vp-p(H)
(73) 450Vp-p(H)
(74) 12.6Vp-p(H)
(75) 12.6Vp-p(H)
(91) 0.7Vp-p(V)
(92) 4.6Vp-p(V)
(86) 2.4Vp-p(V)
(87) 0.27Vp-p(V)
(100) 1.6Vp-p(V)
(123) 33.5Vp-p(H)
(124) 37Vp-p(H)
(125) 98Vp-p(H)
(120) 0.9Vp-p(V)


HA
(VIRS CONT)
RV9102 20k
VIR-HUE
R9103 47k
S9102 VIR
S9101 TV/VTR
RV9101 20k VIR-COLOR
R9102 100k
R9101 27k
VTR — TV
D9401 SEL103R VIR
R9401 1.8k
HE
(VIR LED)
V901G SD-102(G)
V901R SD-102(R)
V901B SD-102(B)
HV
C9201 47/16V
R9210 27k
S9201 AUTO
R9204 47k
R9202 39k
R9203 6.8k
R9201 6.8k
RV9201 20k PICTURE
RV9202 20k SHARPNESS
R9208 12k
RV9203 20k BRIGHT
R9209 18k
R9211 1.8k
RV9204 20k COLOR
RV9205 20k
R9213 82k
R9212 33k HUE
R9214 68k
R9218 3.6k
C9205 33/25V
C9207 0.0039/100V
C9209 100 25V
C9203 33/25V
R9215 5.6k
R9219 22k
R9220 6.8k
C9206 0.22 100V
RV9206 50k TONE
C9208 0.022 100V
R9216 330
R9205 18k
Q9201 2SC631A TONE AMP
HD
(CUSTOMER CONT)
27kV AT ZERO BEAM CURRENT
L801 H.C.A
C801 1.5 400V
TP942
TP941
C802 0.016 1.5kV
C803 0.016 1.5kV
D801 D802
C804 0.016 1.5kV
C805 0.016 1.5kV
R801 1(3W)
C807 1.5 400V
T801 FBT-1
T802 FBT-2
R813 0.33 (3W)
R812 0.33 (3W)
R802 1(3W)
C806 1.5 400V
D801, 802 SB2B DAMP-1,2
Q801 2SD725 CONV
R803 5.6k
NL801
C808 0.1 200V
GC
(DAMPER)
CHASSIS GROUND
HV BLOCK
DC 851
1800p 30kV
R806 150M (1.6W)
R805 150M (1.6W)
R808 150M (1.6W)
R807 150M (1.6W)
R811 100k (1/2W)
R809 2.2M (1/2W)
R810 2.2M (1/2W)
RV801 51M
FOCUS
(73) 450Vp-p(H)
(72) 17Vp-p(H)
(74) 12.6Vp-p(H)
(75) 12.6Vp-p(H)
(91) 0.7Vp-p(V)
(92) 4.6Vp-p(V)
(86) 2.4Vp-p(V)
(87) 0.27Vp-p(V)
(88) 86Vp-p(V)
(83) 112Vp-p(V)
(89) 2.4Vp-p(V)
(84) 2.4Vp-p(V)
Q5533
C5536 0.0047
C5537 0.0047
C5539 100p
R5620 1k
R5633 2.7k
R5634 2.7k
R5638 470 (2W)
C5546 100 25V
R5643 270
R5642 15k
R5645 8.2k
R5646 470 (2W)
Q5546 2SC1475 V. PARABOLA-1 OUT
D5501, 5502 1S1555 V. PROTECT SW1,2 (R)
R5512 680 (1/8W)
R5513 15k
D5502
Q5503
C5510 0.033
R5518 47k
D5503
C5511
R5519 180k
D5504
R5525 24
R5526 27
Q5508
R5531 22k
C5516 47 50V
R5532 2430
R5533 2430
D5507 V. CENT
D5507 EQA01-08S V. CENT LIMITER(R)
D5503 1S1555 V. PULSE RECT(R)
D5505 1S1555 V. CENT PROTECT (R)
E
A-1340-248-A
(H. CENT) H. OUT PIN AMP PIN OUT
Q5301 2SC1890A PIN AMP(G)
Q5303 2SC1364 PIN DRIVE(G)
Q5302 2SD478 PIN OUT(G)
D5302 ERC26-15 H DAMP(G)
D5301 HF1A H BLK(G)
D5303 S34 H STOPPER(G)
(100) 1.6Vp-p(V)
(101) 18Vp-p(V)
R5301 10k
RV5301 10k
C5301 10/50V
R5304 4.7k
R5303 100
H KEYS (G)
R5302 100
RV5302 20k H SIZE (G)
R5308 82k
R5310 10k (1/8W)
R5311 8.2k
R5314 1k (1/8W)
C5303 1 160V
R5309 10k
R5313 9.1k
R5312 820
C5302 47 50V
L5301 4.7mH
T5301 HOT-1
R5315 470(2W)
C5307 1000 10V
C5304 4500p 1.5kV
D5302
(102) 790Vp-p(H)
T5302 HCT-4
C5306 0.068 200V
R5342 100k
Q5305 2SA678 BUFFER(G)
(105) 37Vp-p(H)
Q5304 2SC1890A H SKEW BOW BUFF(G)
Q5306,5307 2SC1364 H CENT AMP-1,2(G)
D5304 1S1555 BIAS-1(G)
Q5308 2SA678 H CENT DRIVE(G)
C5305 0.56 400V
R5322 4701
R5321 10k
R5316 100
R5325 22k
R5327 5.6k (1/8W)
R5328 12k (±1%)
R5330 100
R5332 1.2k
R5335 82
R5337 12 (2W)
R5341 10 (±1%)
D5306
T5303 LOT-1
H BOW (G)
C5309 1 50V
RV5304 10k
R5323 56k
R5326 5.6k
C5310 4.7 160V
R5331 820
C5311 0.01/100V
R5334 6.8k
R5338
C5312 100 10V
RV5303 20k
H SKEW (G)
R5318 10k
R5320 100
R5319 10k
C5308 4.7 25V
R5324 39k
RV5305 5k
H CENT (G)
R5329 12k (±1%)
R5333 1.8k
R5336 560 (1/2W)
R5339 1
R5340 12 (2W)
C5313 100 10V
D5307
R5317 100
D5306,5307 HF1A H CENT RECT -1,2 (G)
(107) 3Vp-p(V)
(106) 0.5Vp-p(V)
Q5311 2SC1890A PIN AMP(R)
Q5313 2SC1364 PIN DRIVE(R)
Q5312 2SD478 PIN OUT(R)
D5305 1S1555 BIAS-2(G)
Q5309 2SC1475 H CENT OUT-1(G)
Q5310 2SA773 H CENT OUT-2(G)
R5343 18k
R5345 4.7k
C5315 10/50V
R5347 100
R5344 2.7k
RV5306 22k
H SIZE (R)
R5350 82k
R5352 10k (1/8W)
R5353 8.2k
R5356 1k (1/8W)
C5317 1 160V
D5308
T5304 HOT-2
L5302 4.7mH
R5357 470(2W)
(109) 18Vp-p(V)
T5305 HOT-5
C5321 1000 10V
C5320 0.068 200V
R5351 10k
R5355 9.1k
R5354 820
C5316 47 50V
C5318 4500p 1.5kV
D5309 HF1A H BLK(R)
D5309 ERC26-15 H DAMP(R)
(110) 790Vp-p(H)
(108) 1.6Vp-p(V)
Q5314 2SC1890A H SKEW BOW BUFF(R)
Q5315, 5316 2SC1364 H CENT AMP-1,2(R)
D5311 1S1555 BIAS-1(R)
Q5317 2SA678 H CENT DRIVE(R)
(111) 38Vp-p(H)
D5310 S34 H STOPPER(R)
C5319 0.56 400V
R5365 560k
R5362 100
C5322 4.7/25V
R5363 18k
R5367 22k
R5370 12k (±1%)
R5372 100
R5369 5.6k (1/8W)
R5373 820
R5374 1.2k
R5377 82
R5379 12 (2W)
R5382 10 (±1%)
D5313
T5306 LOT-2
(113) 0.4Vp-p(V)
(114) 3.4Vp-p(V)
R5358 100
R5360 10k
R5361 10k
H SKEW (R)
RV5307 22k
R5364 1.2k
R5359 100
R5366 56k
R5368 5.6k
C5323 4.7 160V
RV5308 4.7k
H CENT (R)
R5371 12k (±1%)
R5375 1.8k
R5376 6.8k
C5324 0.01/100V
R5378 560 (1/2W)
R5380
R5381 1
R5383 12 (2W)
C5325 100 10V
C5326 100 10V
D5314
D5313,5314 HF1A H CENT RECT-1,2 (R)
(117) 790Vp-p(H)
(112) 0.9Vp-p(V)
Q5320 2SC1890A PIN AMP(B)
Q5321 2SC1364 PIN DRIVE(B)
Q5322 2SD478 PIN OUT(B)
D5316 ERC26-15 H DAMP(B)
D5315 HF1A H BLK(B)
D5312 1S1555 BIAS-2(R)
Q5318 2SC1475 H CENT OUT-1(R)
Q5319 2SA773 H CENT OUT-2(R)
R5384 100
R5386 4.7k
C5327 10/50V
R5388 100
H KEYS (B)
RV5309 10k
R5385 100
RV5310 20k
H SIZE (B)
R5391 82k
R5393 10k (1/8W)
R5394 8.2k
R5397 1k (1/8W)
C5329 1 160V
D5315
T5307 HOT-3
L5303 4.7mH
R5398 470(2W)
(116) 18Vp-p(V)
D5317
T5308 HOT-6
C5333 1000 10V
C5332 0.068 200V
R5392 10k
R5396 9.1k
R5395 820
C5328 47 50V
C5330 4500p 1.5kV
D5316
(115) 1.6Vp-p(V)
Q5323 2SC1890A H SKEW BOW BUFF(B)
Q5324, 5325 2SC1364 H CENT AMP-1,2(B)
D5318 1S1555 BIAS-1(B)
Q5326 2SA678 H CENT DRIVE
Q5327 2SC1475 H CENT OUT (B)
Q5328 2SA773 H CENT OUT-2(B)
D5317 S34 H STOPPER(B)
C5331 0.56 400V
C5314 33 160V
(119) 37Vp-p(H)
L5509 NECK ASS'Y (B)
L5507 NECK ASS'Y (G)
L5508 NECK ASS'Y (R)
(118) 850Vp-p(H)
Q5329 2SD725 H OUT
L5503 DYh (G)
L5502 DYh (R)
L5504 DYh (B)
(103) 100Vp-p(H)
(104) 33Vp-p(H)
260mA
E-1 E-11 E-3 E-2 E-4 E-7 E-6 E-5 E-15
R5405 560k
R5403 100
C5334 4.7 25V
R5404 10k
R5407 22k
R5410 12k (±1%)
R5412 100
R5409 5.6k (1/8W)
R5413 820
R5414 1.2k
R5417 82
R5419 12 (2W)
R5423 10 (±1%)
D5320
T5309 LOT-3
C5335 4.7 160V
C5336 0.01/100V
R5416 6.8k
R5420
C5337 100 10V
R5399 100
R5401 10k
R5402 10k
H SKEW (B)
RV5311 20k
RV5312 10k
H BOW (B)
R5400 100
R5406 56k
R5408 5.6k
RV5313
H CENT (B)
R5411 12k (±1%)
R5415 1.8k
R5418 560 (1/2W)
R5421 1
R5422 12 (2W)
C5338 100 10V
D5321
D5320, 5321 HF1A H CENT RECT-1,2 (B)
D5319 1S1555 BIAS-2 (B)
(120) 0.9Vp-p(V)
(121) 0.23Vp-p(V)
(122) 1.4Vp-p(V)
E-14
C5341 220/25V
D5324 V11N G2 RECT
D5322 V11N 245V RECT
D5323 ERC26-15 H DAMP
245V
120V
R5428 33k
C5339 220 25V
L5304 3.3mH
C5340 220 25V
R5424 100k
R5426 10 (2W)
R5434 120 (3W)
RV5314 120
H LIN(B)
C5342 0.15 100V
R5427 120 (3W)
H LIN(G)
L5305 3.3mH
C5343 0.15 100V
R5429 68 (3W)
RV5315 120
L5306 3.3mH
C5344 0.15 100V
R5431 68 (3W)
R5430 82 (3W)
D5322
C5345 33 160V
C5348 22 350V
T5310 LOT-4
D5323
C5346 4500p 1.5kV
R5425 100k
E-13
D5324
R5433 470 (1/2W)
C5347 4500p 1.5kV
R5432 1.5(1W)
F5301 125V 1.6A
(123) 33.5Vp-p(H)
(124) 37Vp-p(H)
E-16 E-12 E-8 E-9 E-10
(192) (191) (180) (132) (111-114) (115-118)
(137,138) (135,136)